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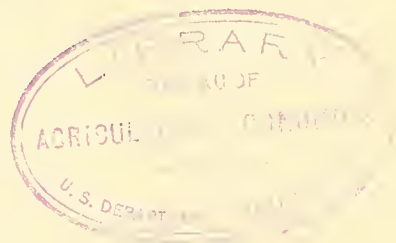
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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics

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STATISTICS OF THE DAIRY INDUSTRY
WITH SPECIAL REFERENCE TO
THE ELEVEN WESTERN STATES

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Washington, D. C.
September, 1926

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INTRODUCTION

The statistics in this report relate to the dairy industry with special emphasis placed on the eleven Western States (Montana, Wyoming, Colorado, New Mexico and the seven states lying to the west thereof). The data presented were assembled at the request of the Extension Directors of these states. The information is desired by the State Agencies for use in connection with dairy extension program making.

The eleven Western States, in the main, are a surplus agricultural producing region. That is, there is generally a surplus of the principal farm products. Many of these products are bulky and the surplus must be shipped to distant markets. Transportation charges are usually relatively high on bulky commodities and the charges tend to increase with the length of the haul. Furthermore many of the bulky products are perishable, must reach the consumer within a limited time, and their production entails considerable risk. Hence, many of the farmers of the Western States operate under great disadvantages as compared with producers near the primary markets.

These handicaps, it has been suggested, may be overcome in part at least by giving more attention to the production of commodities for distant shipment that can be marketed in a condensed form. With this end in view the production of butter, cheese, condensed and evaporated milk, and powdered cream and milk has been strongly advocated as one way out of the difficulty for many Western farmers.

It is not within the scope of this report to show whether dairying should be increased or decreased in any State, district or locality. All that is attempted is a presentation of the statistical background of the dairy industry with special reference to the Western States. The data are presented in both graphic and tabular form. Both the charts and tables have been arranged in groups showing (1) supply statistics, (2) demand and use of dairy products, and (3) marketing statistics. The table of contents indicates which charts and tables deal with the respective subdivisions of the subject.

Compiled by Byron Hunter

Associate Agricultural Economist

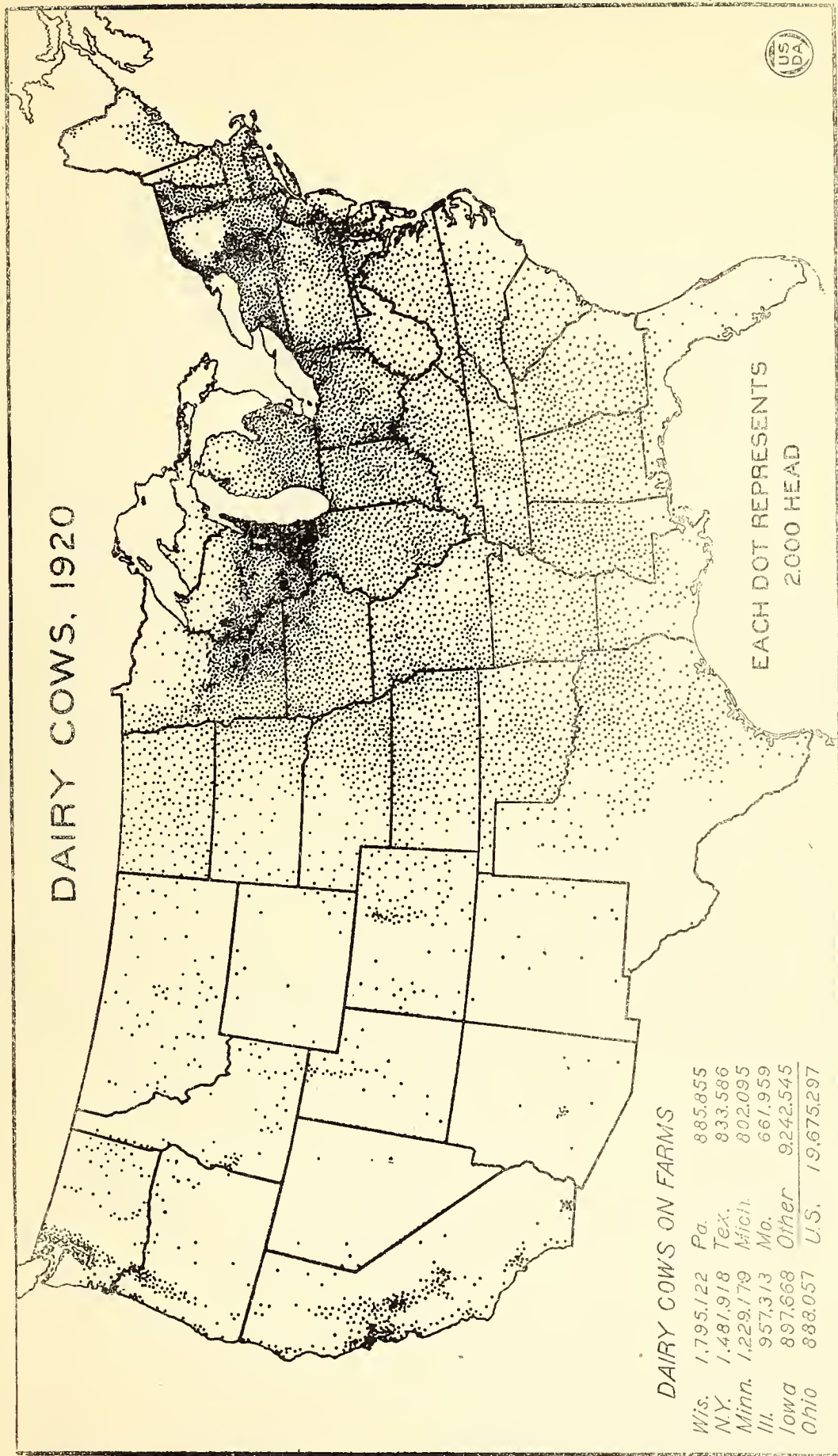


Fig. 1. The "dairy belt", extends from Southern Minnesota eastward to the Atlantic Ocean. In number of dairy cows in 1920 Wisconsin took first rank, New York second, and Minnesota third. Less than 8 per cent of the dairy cows were in the 11 Western States in 1920.

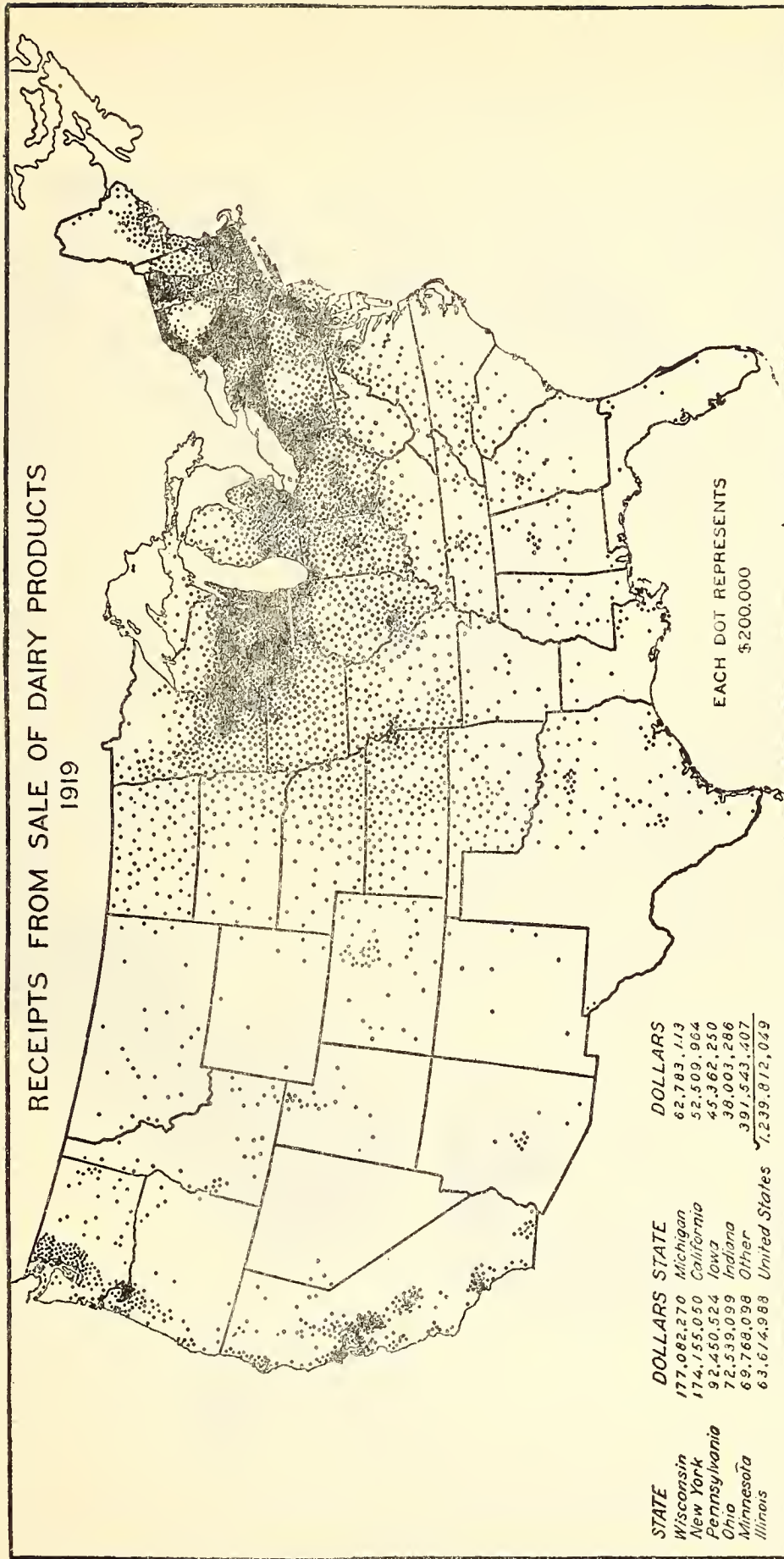


Fig. 2. Commercial dairying is centered in the North Atlantic States and the States adjacent to the Great Lakes. Outside of this general dairy region, dairy centers may be noted also near large cities.

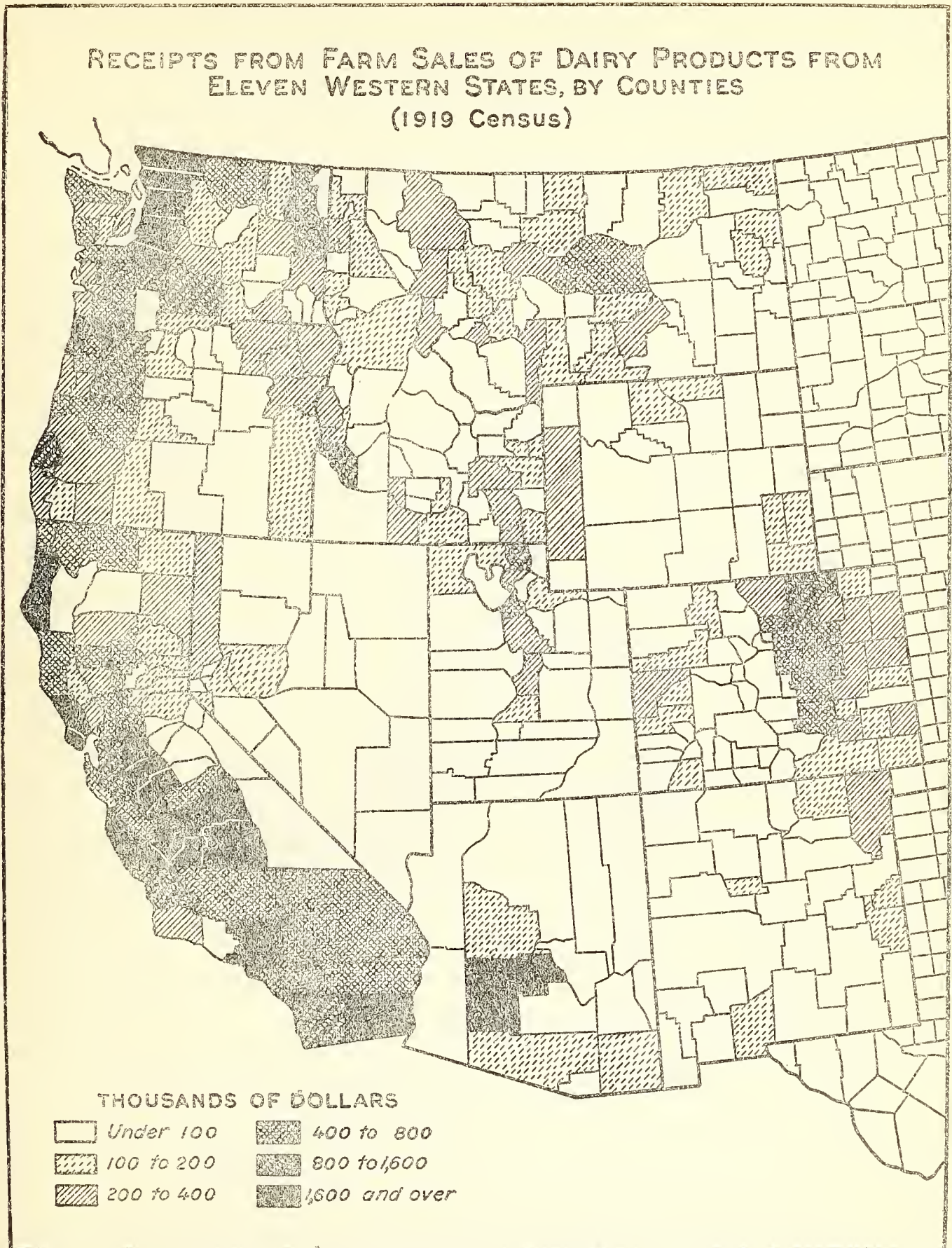


Fig. 3. The principal commercial dairy districts of the 11 Western States are in the western parts of Washington, Oregon and California. In the Mountain States commercial dairy centers are usually found where irrigation is practiced.

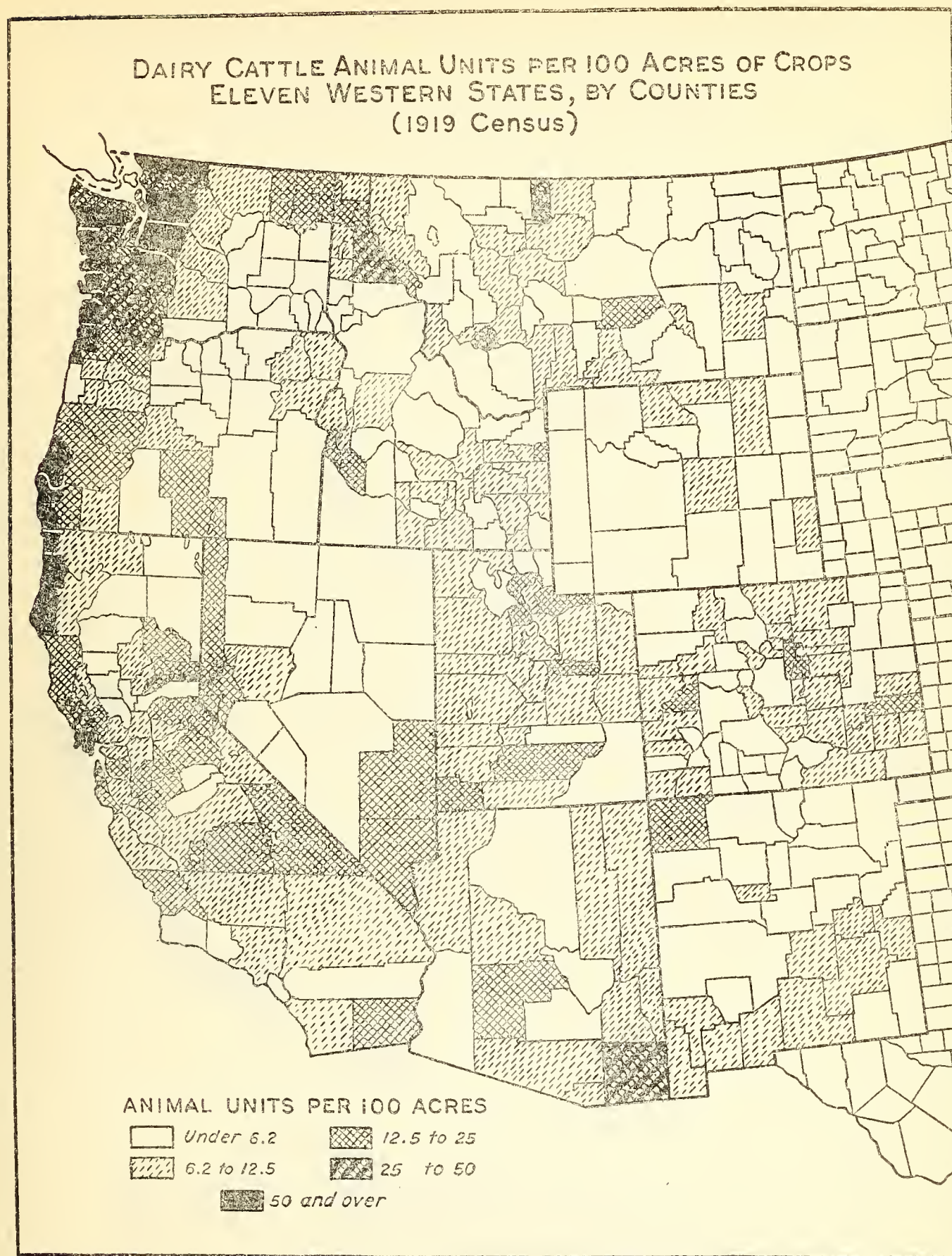


Fig. 4. Dairy cattle animal units per 100 acres of crops in 1920 varied greatly in the 11 Western States. The highest number were in coast counties of Washington, Oregon and California. As here used a cow, a mature bull, or steer, each represents an animal unit. Two head of young cattle represent an animal unit.

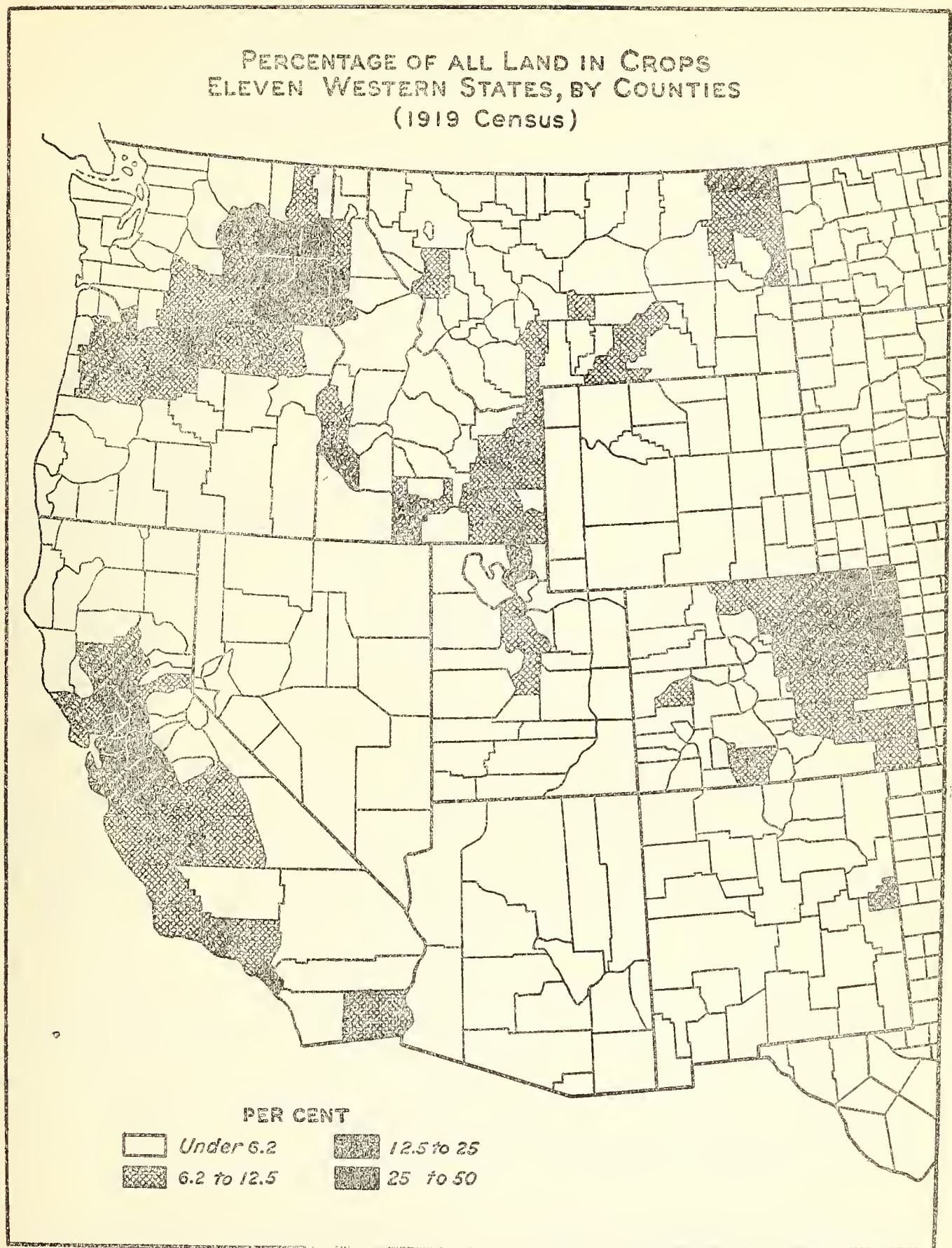


Fig. 5. Most of the counties of the 11 Western States had less than 6.2 per cent of the land in crops in 1919 and no county had over 50 per cent. Although the dairy cattle animal units per 100 acres of crops are high in certain counties (Fig. 4) the total number per county may be low because so little of the land is in crops.

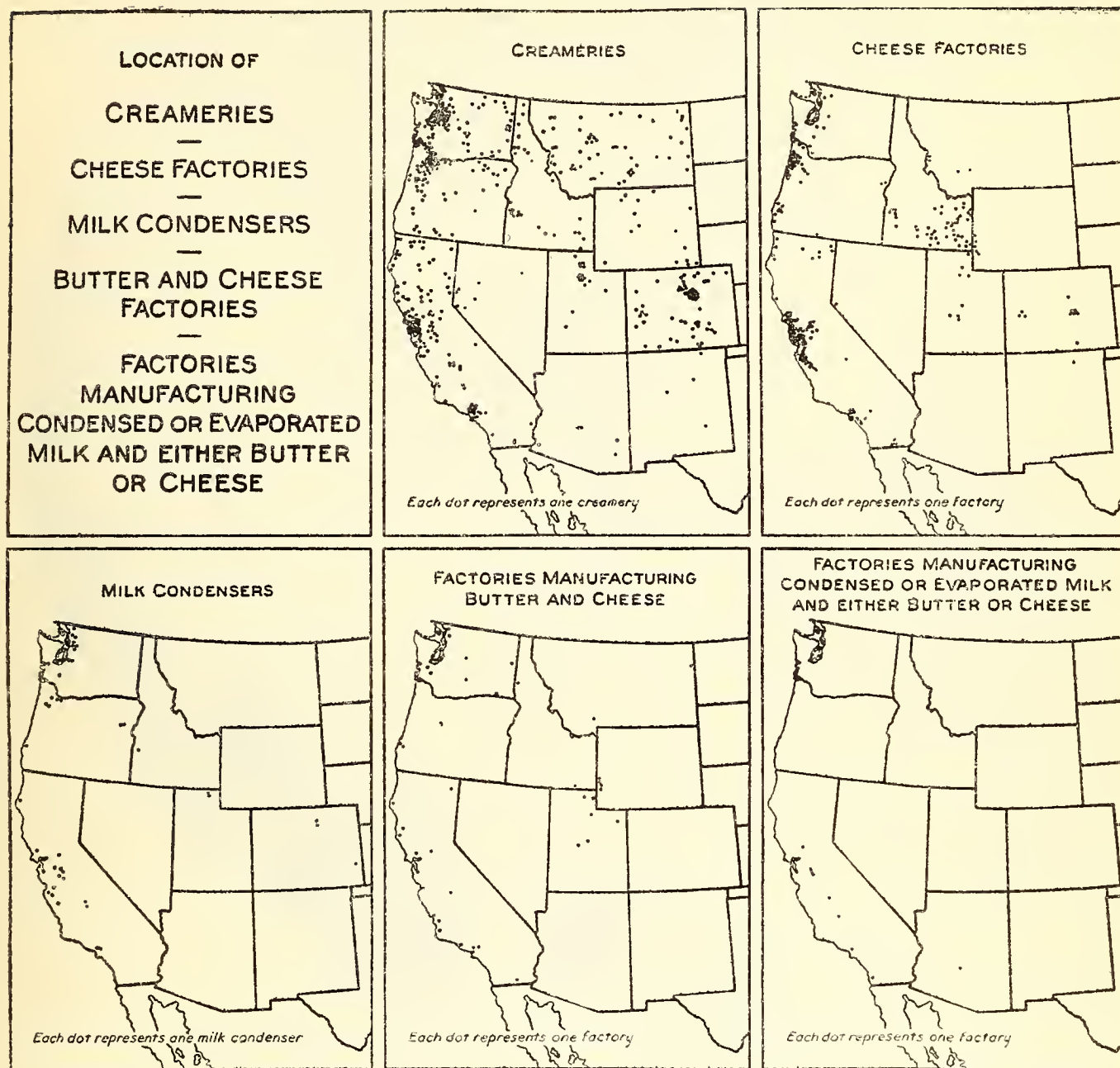


Fig. 6. Much of the dairy farming is done in the vicinity of the manufacturing plants. Cream may be shipped a considerable distance, but the milk received by cheese factories and condenseries is usually produced within a few miles of the manufacturing plants.

The data for California were compiled from Special Publication No. 62, California State Department of Agriculture. Data for the other 10 states are of 1926 and were furnished by Dairy and Poultry Products Division of this Bureau.

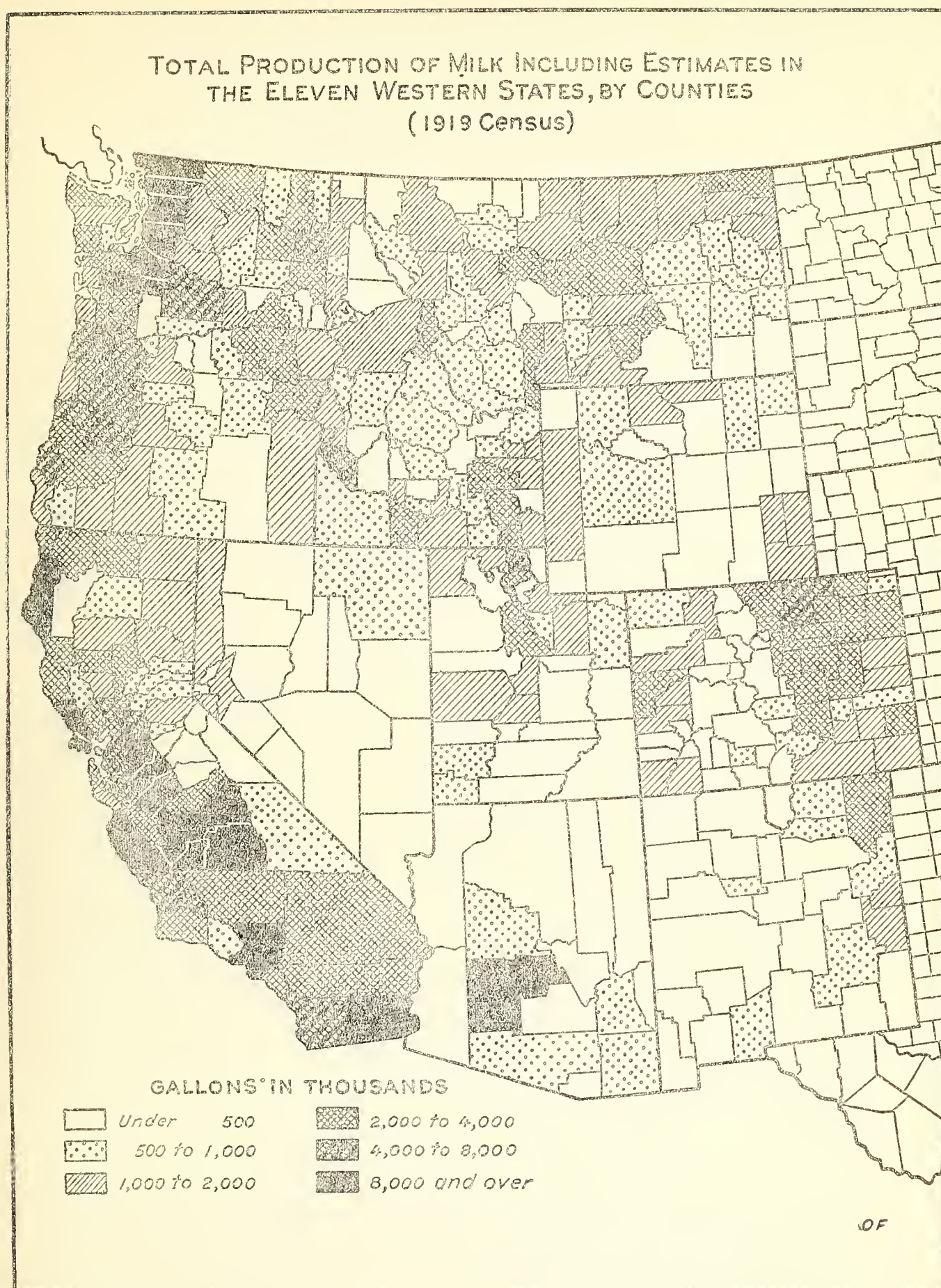


Fig. 7. Total milk production per county in the 11 Western States in 1919 varied from less than 500,000 gallons to about 24,000,000 gallons. Five counties in California produced over 15,000,000 gallons, Stanislaus County being highest with about 24,500,000 gallons.

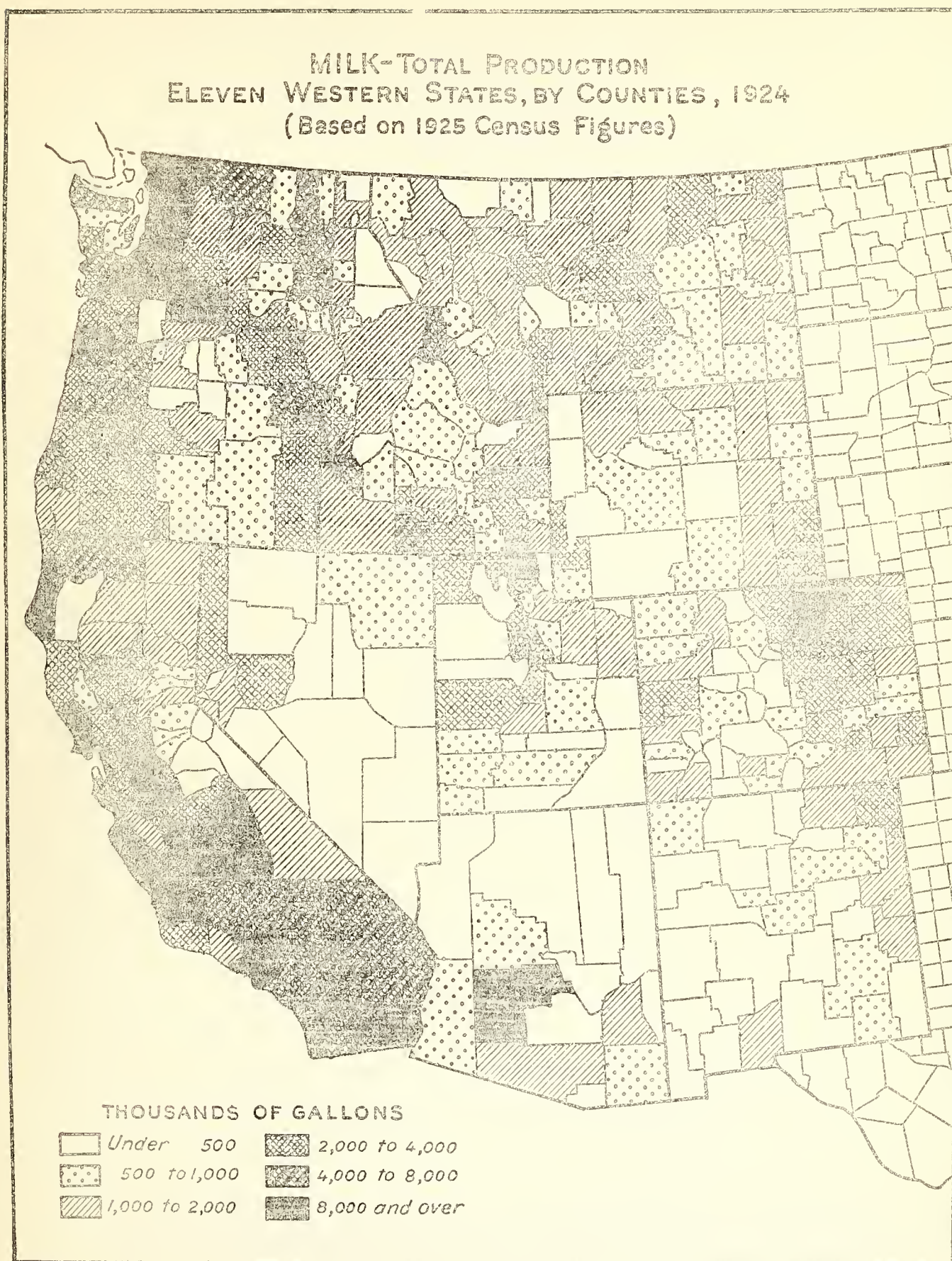


Fig. 8. This chart makes the same comparisons as Fig. 7 except the data are for 1924. The total production of milk increased materially in many of the counties from 1919 to 1924. One gallon of milk equals 8.6 pounds.

COWS AND HEIFERS **TWO YEARS OLD AND OLDER KEPT FOR MILK** Estimated Number on Farms, Jan. 1, 1920 - '26

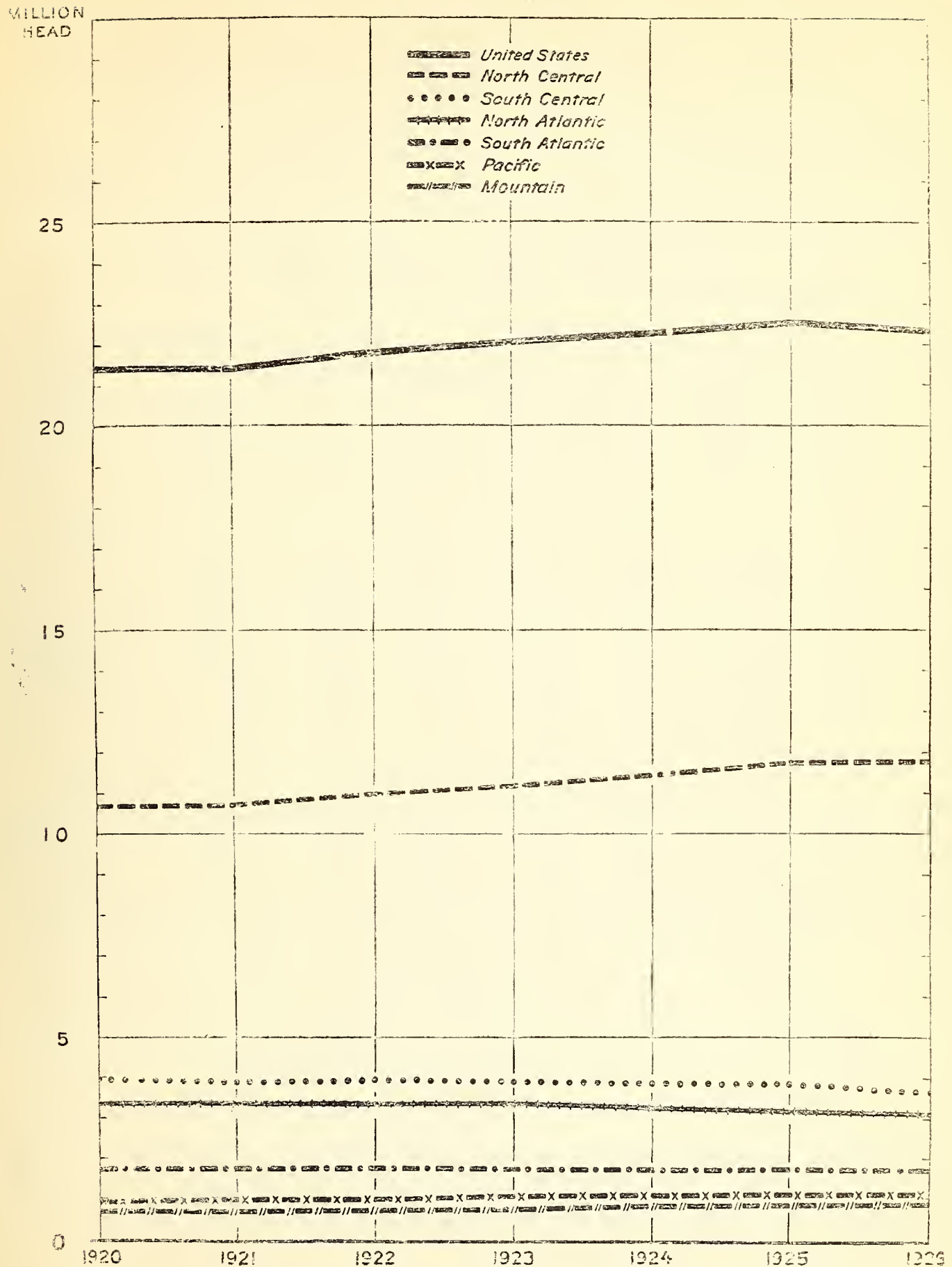


Fig. 9. The number of dairy cows of the United States increased about 4 per cent from 1920 to 1926. The increase in the Mountain, Pacific and North Central States during this time was approximately 21, 14 and 11 per cent respectively. In the other geographic divisions there were decreases.

Table 1 - Cows and heifers two years old and over, kept for milk: Estimated number on farms January 1, 1920 - 1926

Division and State	1920/2	1921/3	1922/3	1923/3	1924/3	1925/4	1926/3	Percentage 1926 is of 1920
	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Per cent
United States	21,427	21,408	21,788	22,063	22,255	22,523	22,290	104
N. Atlantic	3,375	3,356	3,348	3,358	3,283	3,214	3,137	93
N. Central	10,686	10,734	10,996	11,206	11,463	11,753	11,813	111
S. Atlantic	1,745	1,752	1,770	1,768	1,749	1,752	1,714	98
S. Central	3,959	3,877	3,930	3,913	3,869	3,866	3,678	93
Mountain	702	707	737	763	803	844	850	121
Pacific	960	982	1,007	1,055	1,088	1,094	1,098	114
Mountain States:								
Montana	148	148	155	162	174	187	192	130
Idaho	118	122	128	134	147	160	163	138
Wyoming	55	57	59	62	64	66	69	125
Colorado	202	202	206	209	217	224	222	110
New Mexico	58	61	63	63	63	64	64	110
Arizona	35	30	35	36	36	37	32	91
Utah	72	72	75	80	84	87	88	122
Nevada	14	15	16	17	18	19	20	143
Pacific States:								
Washington	245	250	255	270	275	284	275	112
Oregon	200	202	202	205	218	225	220	110
California	515	530	550	580	595	585	603	117

- 1/ North Atlantic - Maine, N. H., Vt., Mass., R. I., Conn., N. J., N. Y., Pa.
North Central - Ohio, Ind., Ill., Mich., Wis., Minn., Ia., Mo., N. D.,
S. D., Nebr., Kan.
South Atlantic - Del., Md., Va., W. Va., N. C., S. C., Ga., Fla.
South Central - Ky., Tenn., Ala., Miss., Ark., La., Texas, Okla.
Mountain - Mont., Ida., Wyo., Colo., N. M., Ariz., Utah, Nev.
Pacific - Washington, Oregon, California.
- 2/ Based on analysis and interpretation of Dairy Cow and Heifer, and Beef Cow and Heifer figures, Census of 1920.
- 3/ Based on data from the Division of Crop and Livestock Estimates.
- 4/ Based on analysis and interpretation of Dairy Cows and Heifers, Beef Cows and Heifers, and Cows Milked, preliminary report, Census of 1925.

COWS AND HEIFERS

TWO YEARS OLD AND OVER KEPT FOR MILK

Estimated Number Per 1,000 of Human Population by Geographic Divisions, 1920-1926

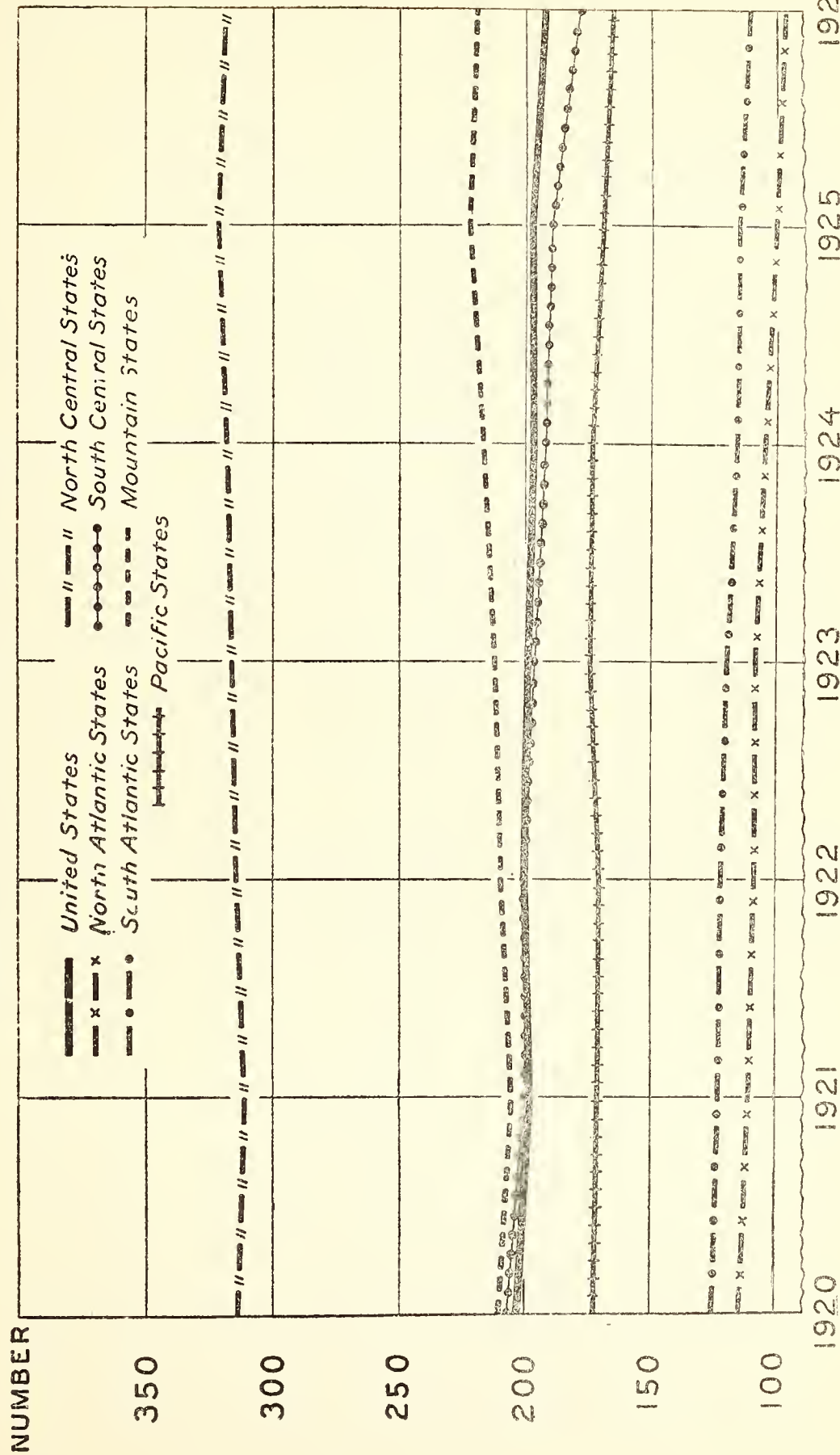


Fig. 10. There was a general decrease in the number of dairy cows and heifers two years old and over kept for milk per 1000 persons from 1920 to 1926. For the United States as a whole the decrease was 5 per cent during this period. It was 15 per cent, 14 per cent, 12 per cent and 4 per cent, respectively, in the North Atlantic, South Central, South Atlantic and the Pacific States. In the Mountain States the number increased 4 per cent and in the North Central States 2 per cent. Of the 11 Western States, Nevada had the greatest increase (43 per cent) and Arizona the greatest decrease (30 per cent).

Table 2 - Cows and heifers two years old and over kept for milk per 1,000 persons: Estimated number January 1, 1920-1926

Division and State	1920	1921	1922	1923	1924	1925	1926	Percentage 1926 is of 1920
	Number	Number	Number	Number	Number	Number	Number	Per cent
United States	203	199	200	199	197	197	192	95
North Atlantic	114	111	109	108	104	100	97	85
North Central	314	311	314	316	318	321	319	102
South Atlantic	125	123	122	120	116	115	110	88
South Central	207	200	200	197	192	189	178	86
Mountain	210	206	210	212	217	222	219	104
Pacific	172	171	170	174	173	169	165	96
Mountain States								
Montana	270	259	261	264	273	282	281	104
Idaho	273	274	279	285	302	319	317	116
Wyoming	282	284	285	292	292	292	296	105
Colorado	215	211	211	211	214	217	211	98
New Mexico	161	167	171	169	167	168	166	103
Arizona	105	86	95	94	90	88	73	70
Utah	160	157	160	167	172	174	173	108
Nevada	182	195	208	221	234	247	260	143
Pacific States								
Washington	181	181	181	188	187	190	180	99
Oregon	255	253	249	248	259	263	253	99
California	150	149	149	152	150	142	142	95

Table 3 - Cows and heifers two years old and over, kept for milk: Estimated value per head on farms January 1, 1920-1926

Division and State	1920	1921	1922	1923	1924	1925	1926
	Dols.	Dols	Dols	Dols	Dols	Dols	Dols
United States	86	64	51	51	52	51	57
North Atlantic	102	76	65	63	65	63	78
North Central	88	63	51	53	55	54	60
South Atlantic	76	59	43	41	42	41	42
South Central	68	52	37	33	31	31	34
Mountain	85	74	62	59	58	50	57
Pacific	92	86	72	69	72	68	71
Mountain States							
Montana	83	75	58	55	53	50	54
Idaho	85	72	65	63	62	50	64
Wyoming	93	75	71	67	57	50	55
Colorado	87	70	57	53	50	45	50
New Mexico	83	73	60	50	50	45	46
Arizona	95	105	95	93	85	70	70
Utah	78	70	61	63	72	58	68
Nevada	88	86	69	74	83	60	75
Pacific States							
Washington	88	75	70	61	71	65	66
Oregon	83	75	62	60	61	60	60
California	97	95	76	76	76	73	77

HEIFERS

ONE TO TWO YEARS OLD KEPT FOR MILK

Estimated Number on Farms, Jan. 1, 1920 - '26

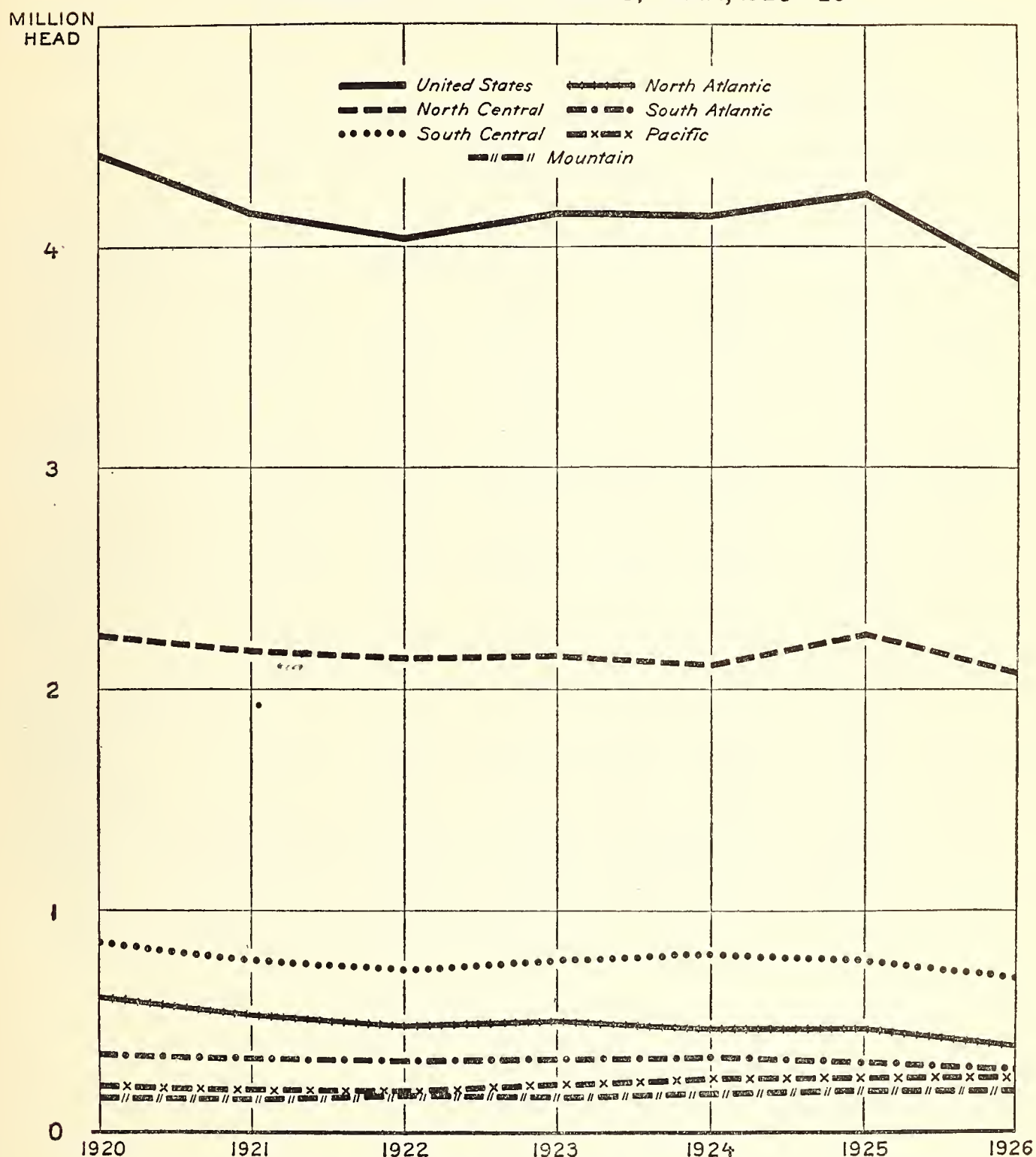


Fig. 11. The number of heifers 1 - 2 years old kept for milk in the United States decreased about 13 per cent from 1920 to 1926. During this period the decrease was 37, 22, 18 and 7 per cent, respectively in the North Atlantic, South Atlantic, South Central and North Central States while in the Pacific States the number increased 20 per cent and in the Mountain States 19 per cent.

Table 4 - Heifers one to two years old being kept for milk: Estimated number on farms January 1, 1920 - 1926

Division and State	1920/1	1921	1922	1923	1924	1925/2	1926	Percentage 1926 is of 1920
	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Per cent
United States	4,418	4,155	4,023	4,147	4,137	4,234	3,861	87
North Atlantic	612	535	484	506	468	463	385	63
North Central	2,240	2,170	2,143	2,156	2,110	2,251	2,073	93
South Atlantic	353	335	318	331	336	312	276	78
South Central	855	777	732	778	809	779	698	82
Mountain	151	147	161	159	168	184	180	119
Pacific	207	191	185	217	246	245	249	120
Mountain States								
Montana	30	33	30	30	35	36	35	117
Idaho	28	27	31	31	33	38	38	136
Wyoming	10	11	11	13	13	14	14	140
Colorado	44	38	44	41	42	48	47	107
New Mexico	12	15	18	15	10	11	13	108
Arizona	9	6	7	9	11	10	8	89
Utah	15	14	16	16	19	21	19	127
Nevada	3	3	4	4	5	6	6	200
Pacific States								
Washington	53	53	51	51	50	59	57	108
Oregon	40	36	34	43	45	44	45	112
California	114	102	100	123	151	142	147	129

1/ Based upon analysis and interpretation of Census of 1920.

2/ Based on analysis and interpretation of preliminary report of Agricultural Census of 1925.

Data from Crop and Livestock Estimates.

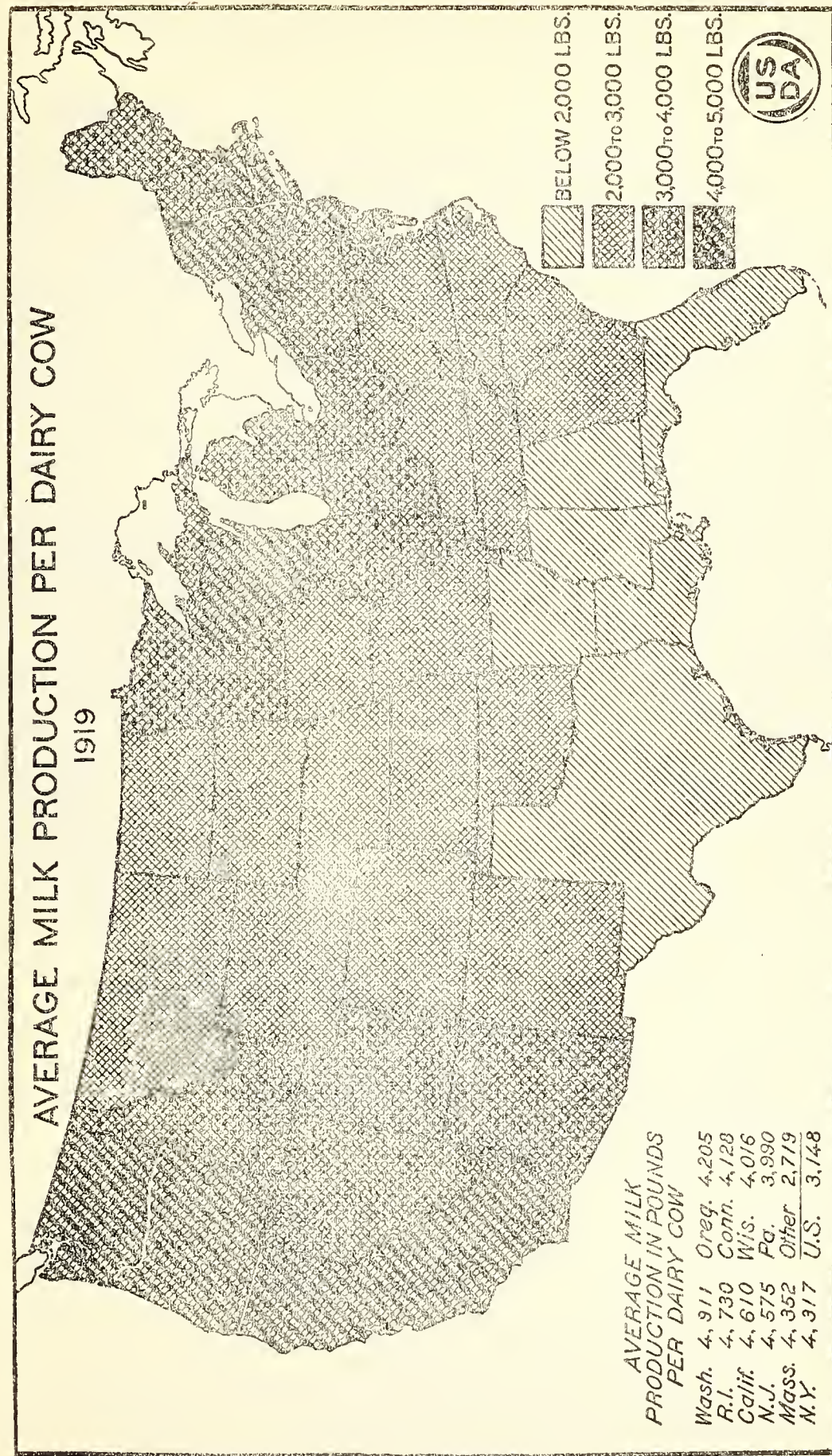


Fig. 12. The average milk production per dairy cow as reported by the census in 1919 was lowest in the Gulf States and Arkansas and highest in Pacific Coast States, in Wisconsin, New York and in Southern New England.

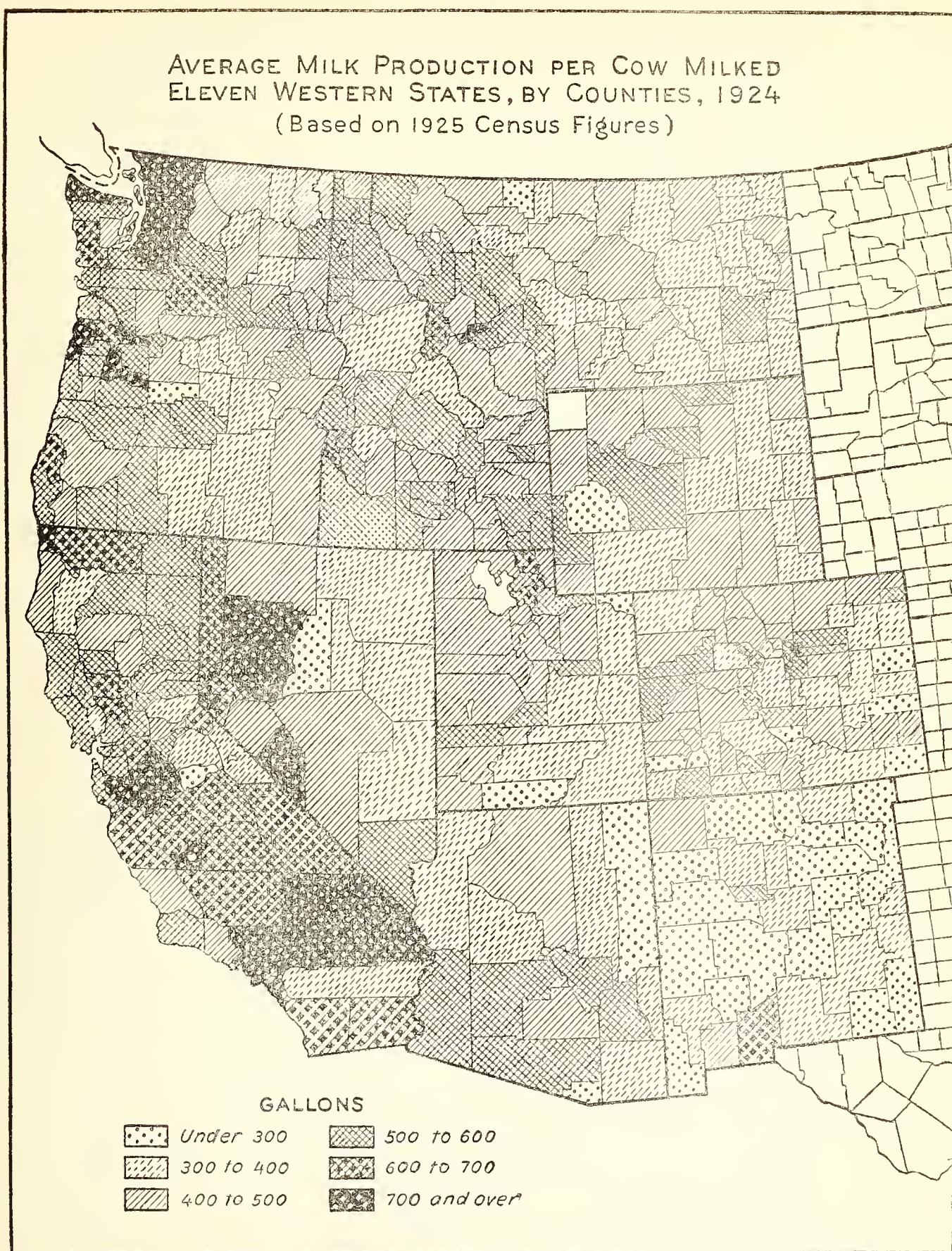


Fig. 13. The county average milk production per cow milked in 1924 varied greatly in each of the 11 Western States, the range being from less than 300 gallons per cow to over 700 gallons. The counties having averages of 700 or more gallons are in Washington, Oregon, California and Nevada. One gallon equals 8.6 pounds.

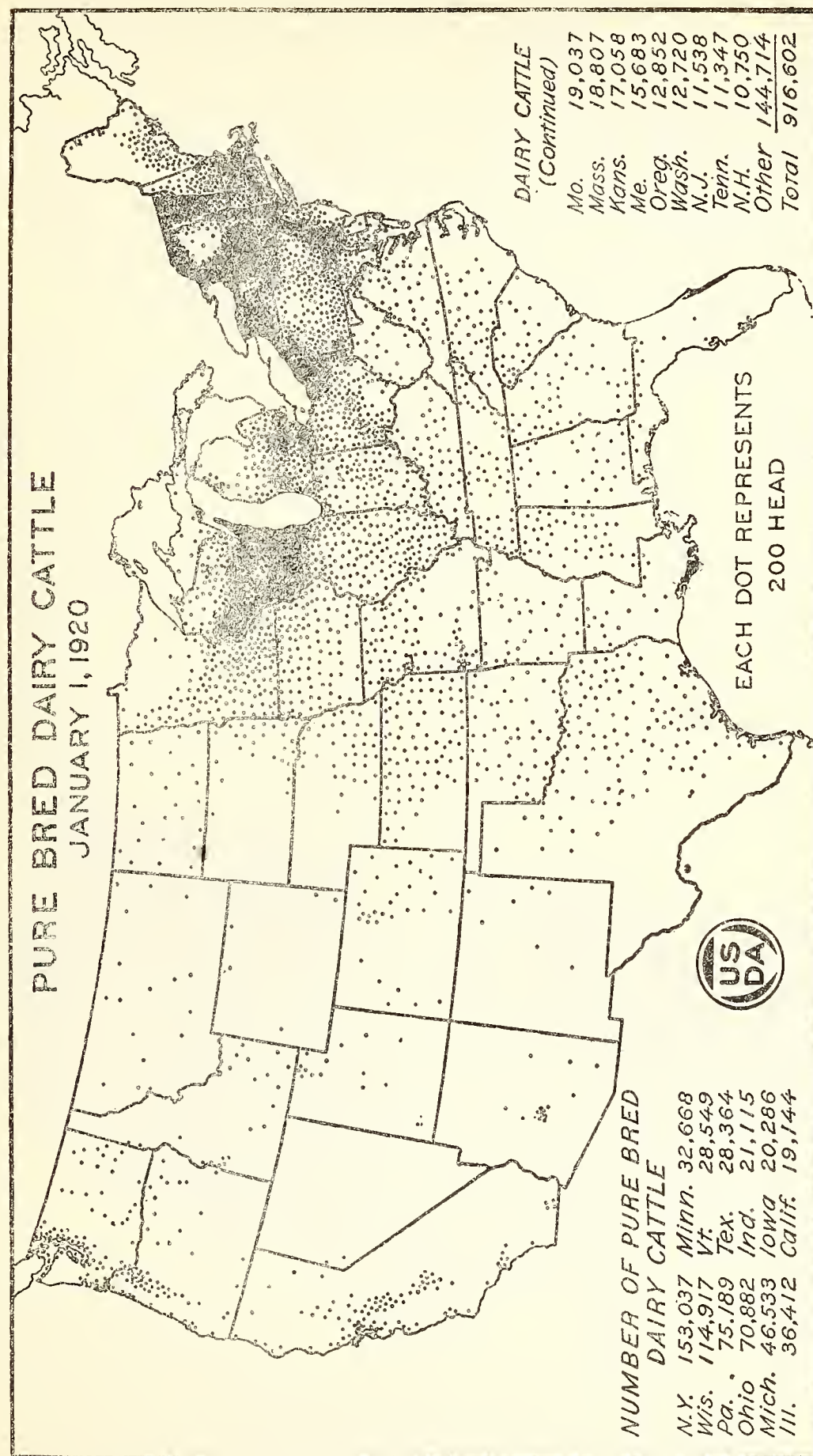


Fig. 14. Purebred dairy cattle are widely distributed over the United States, the greatest number being found in the Northeastern States and the Great Lake States. In number per state, New York was first in 1920, Wisconsin 2nd, California 12th, Oregon 17th, and Washington 18th.

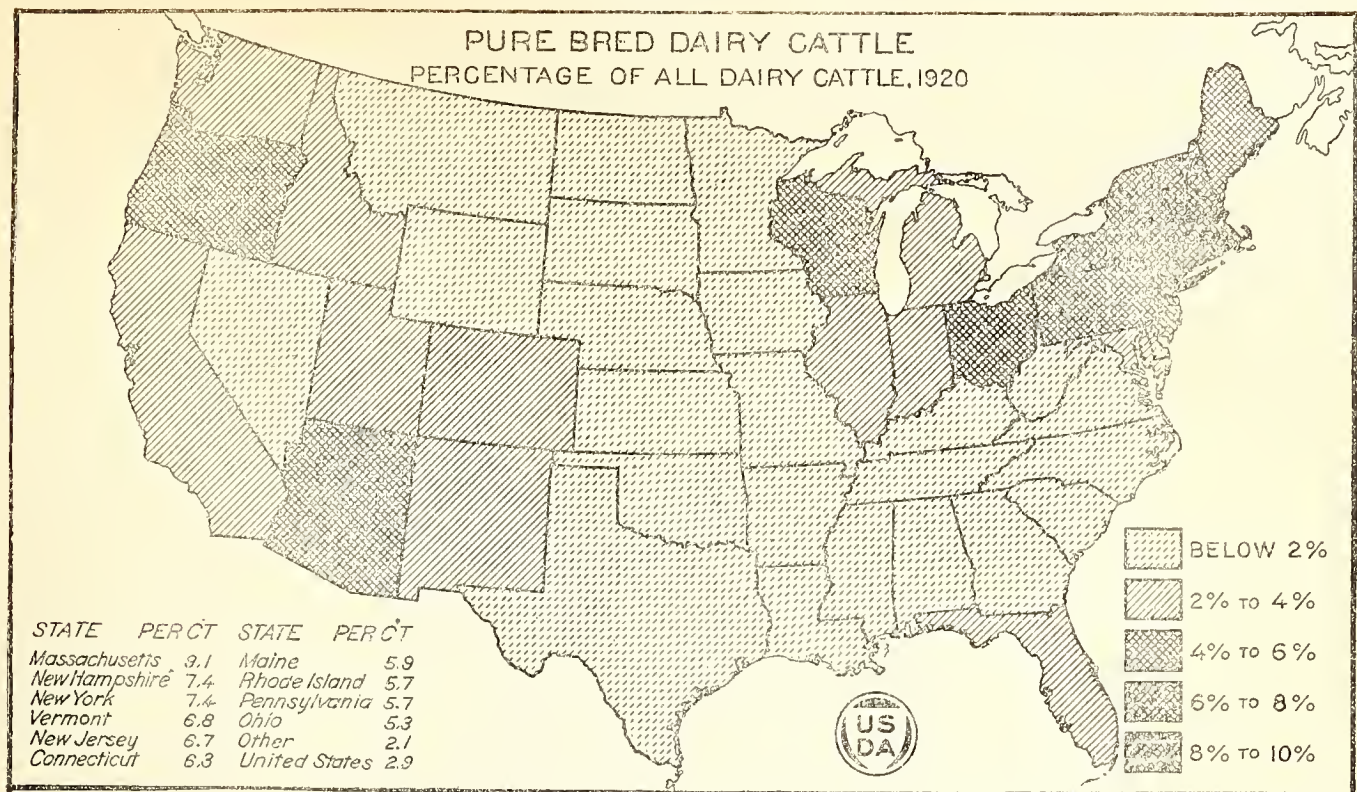


Fig. 15. Most of the purebred dairy cattle are in the Northeastern States. In Massachusetts more than 8 per cent of dairy cattle were purebred in 1920; in New York, Vermont, New Hampshire, Connecticut and New Jersey from 6 to 8 per cent; in Rhode Island, Pennsylvania, Ohio, Wisconsin, Oregon, Maine, Arizona from 4 to 6 per cent. Of the registered dairy cattle in the United States in 1920, about 58 per cent were Holstein-Friesian, 25 per cent Jerseys, 9 per cent Gurnseys, 3 per cent Ayrshires, and 1 per cent Brown Swiss.

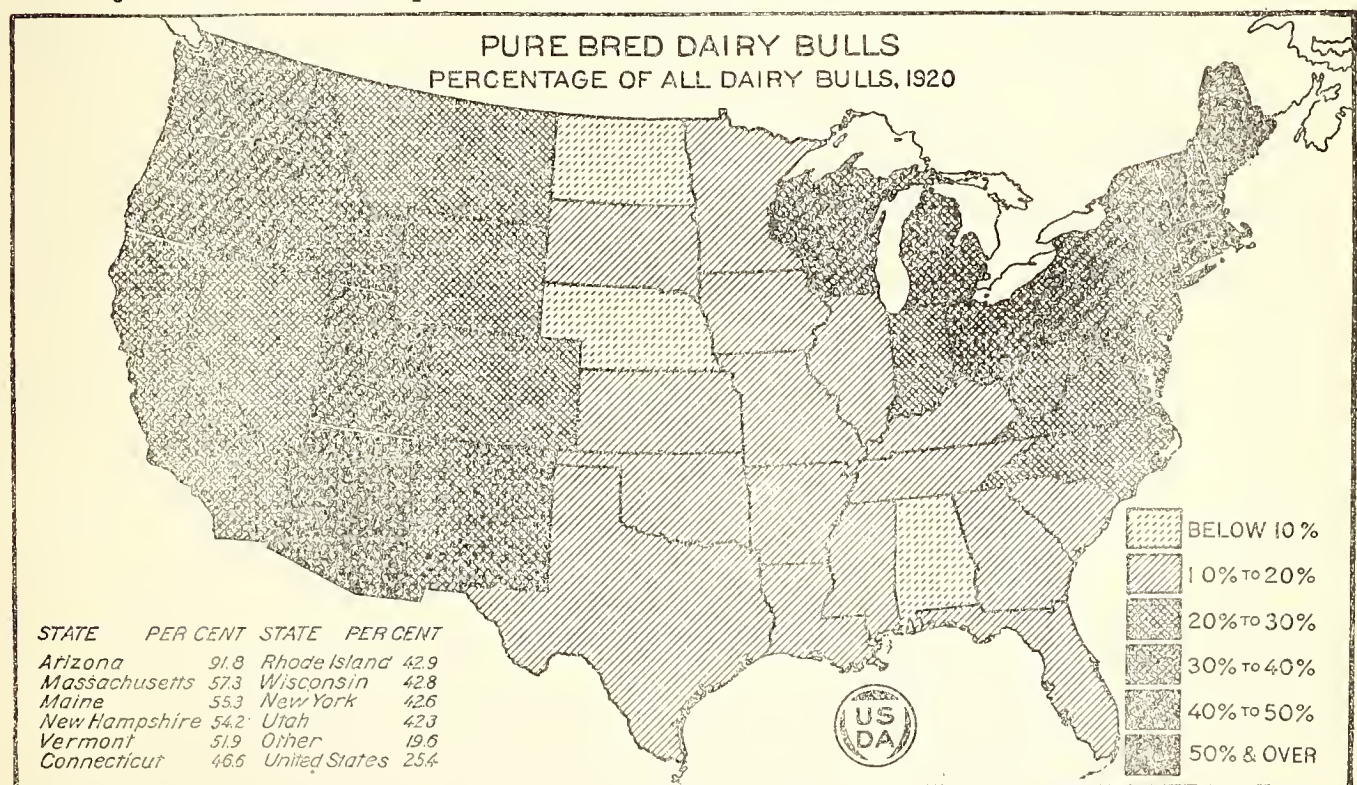


Fig. 16. Maine, New Hampshire, Vermont, Massachusetts and Arizona have more than 50 per cent of their dairy bulls purebred. New York, Connecticut, Rhode Island, Utah, Oregon and Washington have 40 to 50 per cent. For the most part those states with the largest percentage of dairy cattle purebred have the largest percentage of dairy bulls purebred, and have the largest average production of milk per cow.

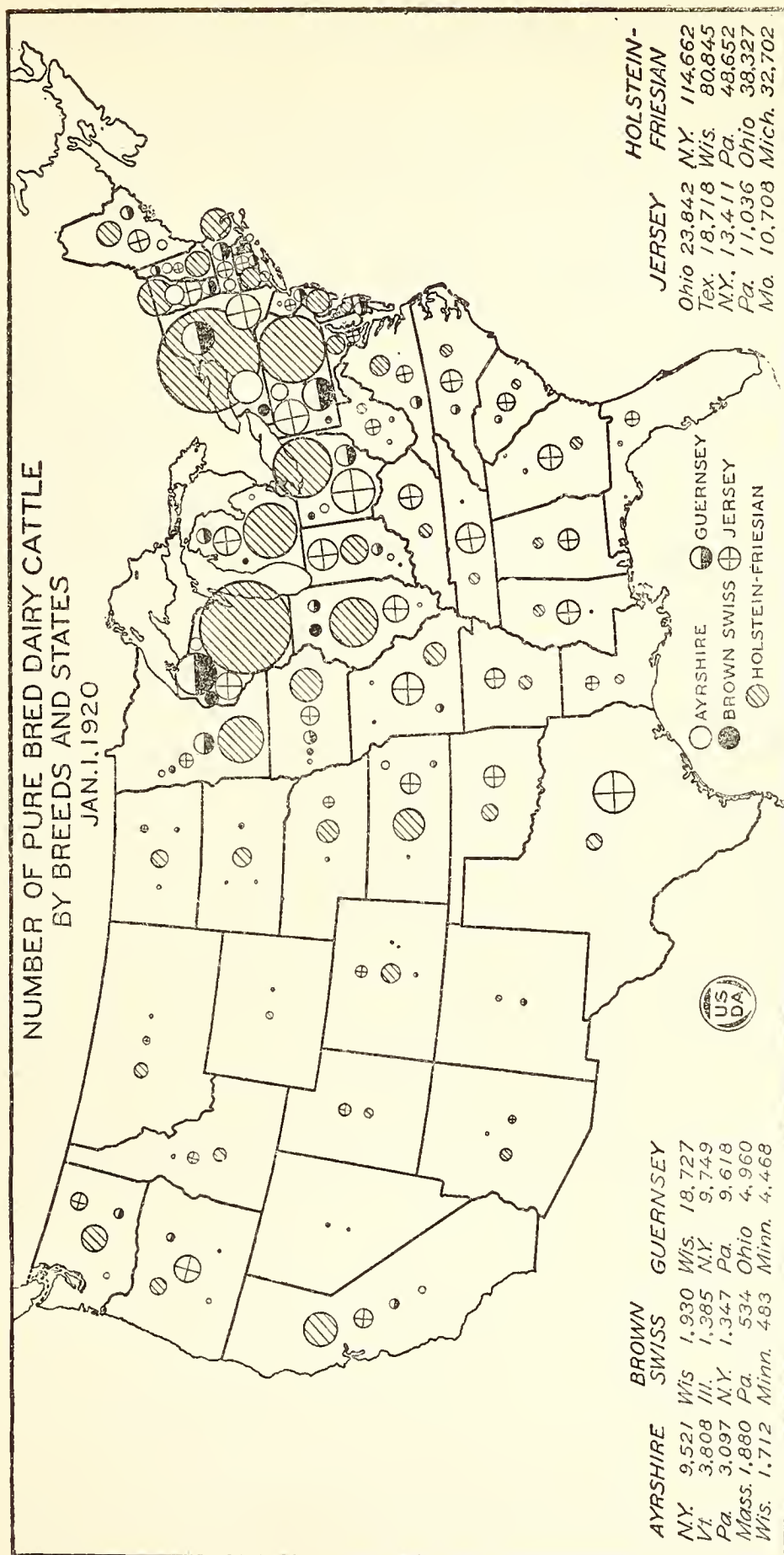


Fig. 17. The Jersey breed predominated in the Southern States and the Holstein-Friesian breed in the Northern States. The total numbers by breeds are as follows: Ayrshires, 30,509; Brown Swiss, 8,283; Guernseys, 79,446; Holstein-Friesians, 528,621; Jerseys, 231,834; and all other breeds, 37,909, making a total of 916,602 purebred dairy cattle.

Table 5 - Dairy Cattle: Percentage purebred, cows per purebred bull and milk production per cow, by geographic divisions and specified states, 1919.

Division and State	Percentage all dairy cat- tle purebred	Percentage bulls purebred	Cows per purebred bull	Milk production per cow
	Per cent	Per cent	Number	Pounds
United States	2.9	25	100	3,148
New England	6.9	53	50	3,861
Middle Atlantic	6.7	35	56	4,214
East North Central	3.7	33	78	3,638
West North Central	1.4	14	159	2,683
South Atlantic	1.8	18	162	2,503
East South Central	1.2	13	260	2,193
West South Central	1.3	13	226	1,789
Mountain	2.2	31	109	3,113
Pacific	3.1	39	80	4,610
Mountain States				
Montana	1.6	25	155	2,864
Idaho	2.0	34	103	3,560
Wyoming	1.8	30	128	2,692
Colorado	2.0	26	107	2,993
New Mexico	2.1	32	100	2,210
Arizona	5.2	60	51	3,724
Utah	2.7	42	111	3,466
Nevada	1.7	21	131	3,853
Pacific States				
Washington	3.4	42	70	4,911
Oregon	4.6	49	61	4,205
California	2.5	34	98	4,610

Compiled from 1920 Census.

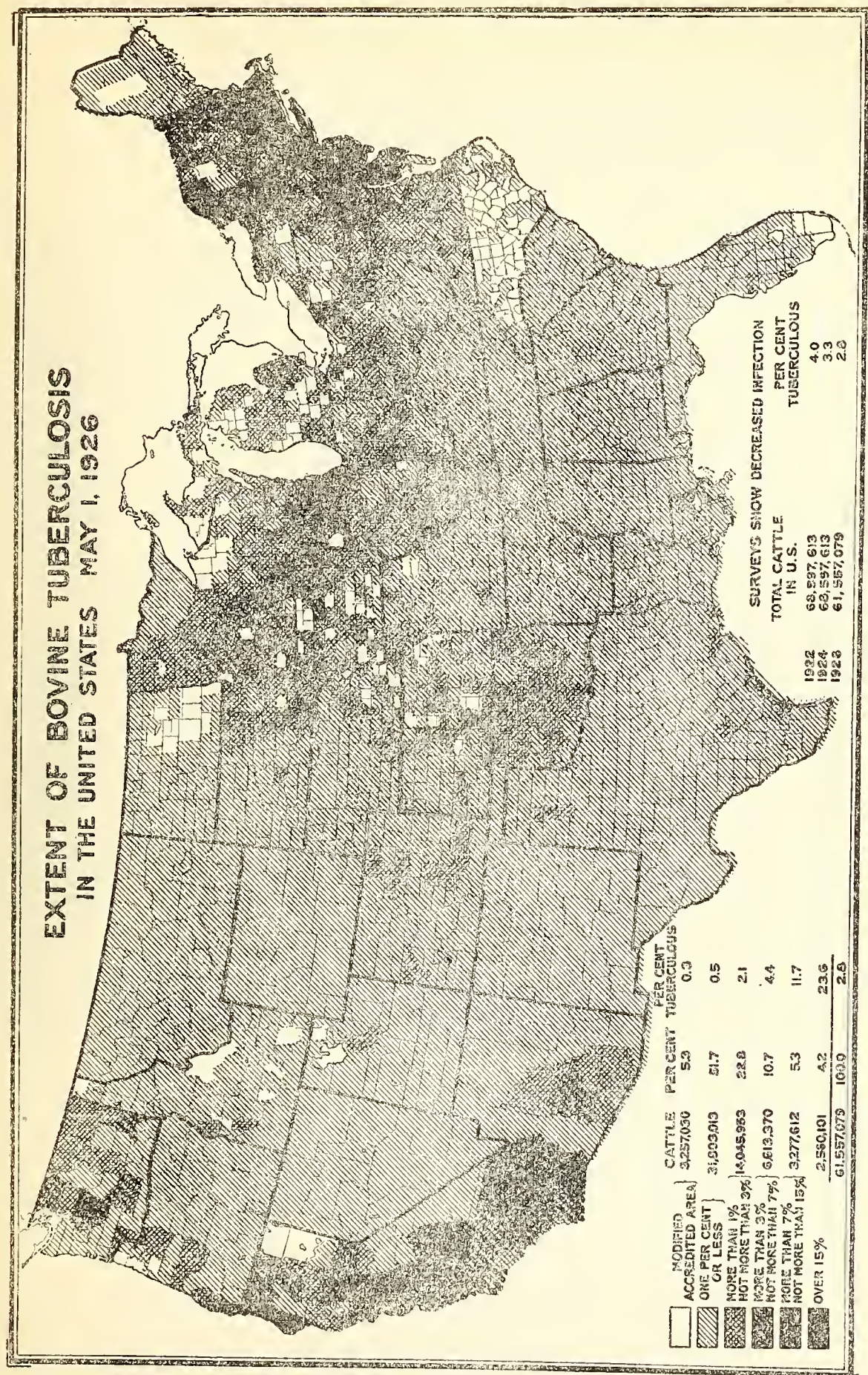


Fig. 18. Bovine tuberculosis in the United States is decreasing. Surveys indicate 4 per cent of all cattle were infected in 1920 and 2.8 per cent in 1926. The greatest percentage of infection is usually found in districts where rather intensive dairying is practiced. The chart indicates the centers of greatest infection. Chart furnished by Bureau of Animal Industry.

Table 6 - Bovine tuberculosis: Status of eradication in the Western States, 1918 - 1926,

State	Percentage of cattle tested, year ending June 30									
	1918	1919	1920	1921	1922	1923	1924	1925	1926/1	
	Per cent	Per cent	Per cent	Per cent	Per cent	Per cent	Per cent	Per cent	Per cent	
Idaho	0.2	0.1	1.5	3.3	5.4	12.8	12.8	12.6	9.1	
Oregon	0.2	0.5	2.6	6.0	7.8	9.8	13.5	15.9	19.8	
Utah	0.8	0.9	2.0	3.7	4.9	5.5	10.6	11.1	11.6	
Washington	0.2	1.4	7.9	7.5	13.8	13.3	17.7	17.1	21.4	
Montana	1.4	1.4	1.9	3.4	8.2	8.9	5.9	6.4	4.2	
New Mexico	0.04	0.04	-	-	0.5	0.5	0.5	1.1	0.4	
Nevada	-	0.1	2.6	3.5	2.6	4.0	4.7	3.1	2.5	
Colorado	-	0.05	0.004	-	0.06	0.2	0.6	0.2	1.1	
Wyoming	-	0.5	-	1.3	3.2	3.8	2.6	1.9	1.2	
California	-	-	-	-	0.2	5.4	1.1	1.7	2.0	
Arizona	-	-	-	-	-	0.3	3.5	0.9	2.7	
	Percentage of cattle tested that reacted									
Idaho	6.2	1.3	2.1	2.0	1.0	1.0	0.4	0.7	0.3	
Oregon	3.4	2.5	2.7	2.0	1.7	1.8	1.3	1.0	1.1	
Utah	1.3	0.2	0.8	0.6	1.1	1.6	1.2	0.8	1.0	
Washington	2.9	2.5	3.2	2.2	2.2	1.8	1.8	1.9	3.0	
Montana	5.8	2.8	2.6	1.2	1.0	0.7	0.5	0.6	0.5	
New Mexico	1.1	0.0	-	-	1.0	0.3	0.1	0.5	0.5	
Nevada	-	3.8	5.5	2.6	3.1	1.1	0.6	1.1	0.7	
Colorado	-	2.6	4.6	-	4.9	4.9	2.9	2.4	1.8	
Wyoming	-	4.3	-	1.9	0.8	1.0	0.3	1.4	0.2	
California	-	-	-	-	3.0	0.6	1.2	1.1	2.0	
Arizona	-	-	-	-	-	1.5	3.7	0.5	3.2	

Compiled from data furnished by the Bureau of Animal Industry.

1/ Ten months of year ending June 30, 1926.

COW TESTING ASSOCIATIONS **GROWTH IN U.S. AND WESTERN STATES** July 1, 1906 - '23 and Jan. 1, 1925 - '26

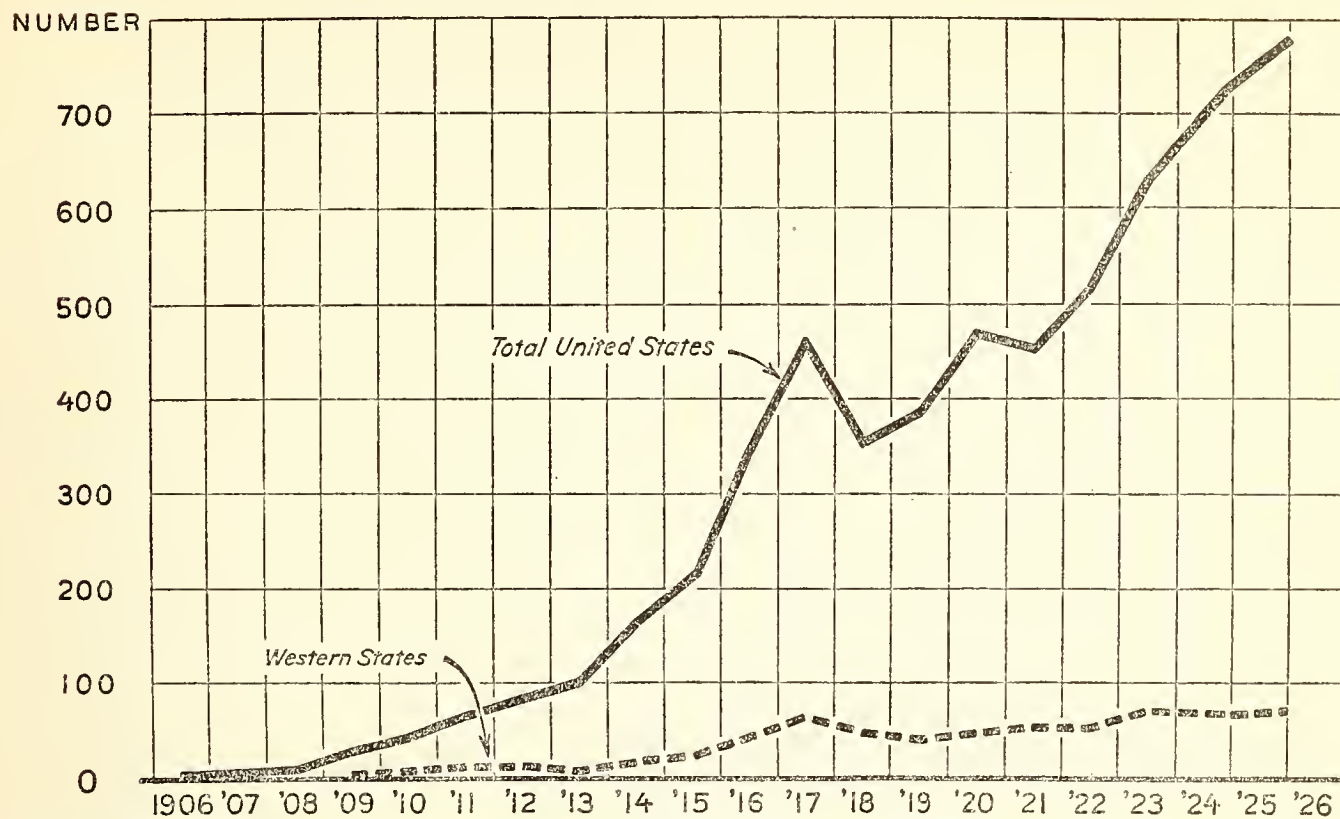


Fig. 19. Cow testing associations in the United States increased from one in 1906 to 777 in 1926. Of the total number of active associations on January 1, 1926, about 70 per cent were in the North Central States, 15 per cent in the North Atlantic States and 9 per cent in the 11 Western States.

BULL ASSOCIATIONS **GROWTH IN UNITED STATES AND 11 WESTERN STATES** July 1, 1908-1923 and January 1, 1925-1926

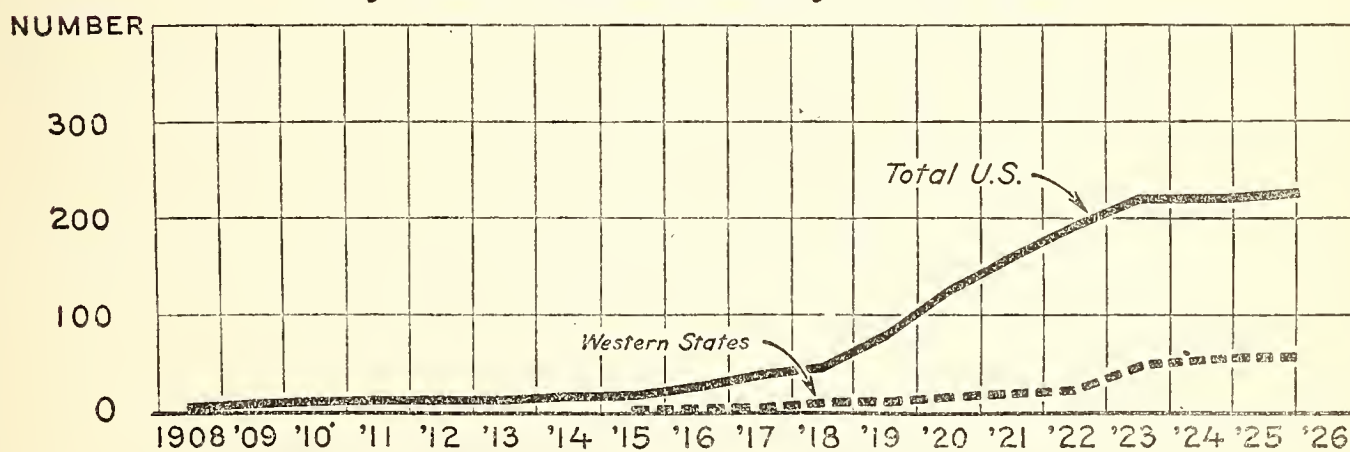


Fig. 20. Dairy bull associations in the United States increased from 3 in 1908 to 225 in 1926. Of the active associations on January 1, 1926, about 28 per cent were in the North Central States 25 per cent in the Western States, and 20 per cent in the South Central States.

Table 7 - Cow testing associations: Number active July 1, 1905 - 1923 and January 1, 1925 and 1926 /1

State	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'25	'
Mich.	1	4	2	5	4	3	4	4	3	3	10	15	7	13	14	11	17	53	105	103
Me.			3	4	3	6	5	4	5	8	11	5	1	0	0	0	3	4	2	1
N. Y.			1	1	3	9	18	21	29	35	47	43	19	25	28	24	31	27	24	28
Vt.				2	8	10	11	17	28	33	38	47	18	12	18	17	21	20	17	23
Ia.				2	5	4	8	7	8	13	23	30	15	11	14	17	22	47	56	61
Calif.				1	3	2	4	4	5	7	9	15	16	14	18	21	21	27	20	3
Wis.				9	10	10	8	11	24	37	51	81	112	105	115	103	127	151	176	16
Nebr.				1	0	0	0	3	2	3	4	4	2	2	0	0	1	4	2	6
Colo.					1	1	2	1	1	0	0	3	5	5	5	4	6	6	7	6
Pa.					1	1	2	2	7	14	19	24	21	35	64	46	45	36	42	43
Ohio					1	0	0	1	4	5	20	30	24	24	41	35	36	36	21	2
Wash.					1	3	1	0	0	1	12	18	11	9	6	10	10	11	10	6
Md.						1	3	3	2	4	7	8	4	2	6	7	6	4	9	10
Ill.						4	3	2	7	3	3	17	15	27	23	25	24	23	24	2
Minn.						3	7	10	9	11	22	26	23	21	19	23	37	55	88	84
N. H.						1	1	1	4	8	11	12	8	9	10	10	11	10	5	1
Ore.						1	1	1	7	11	15	17	11	6	9	5	5	4	7	6
Utah						1	0	0	1	1	0	1	1	0	1	1	1	4	5	4
Mass.						2	2	2	3	0	4	4	0	0	1	5	6	6	3	0
Va.						2	2	2	0	0	2	4	4	5	8	10	12	13	15	1
Kan.								1	1	1	1	4	3	15	13	13	13	9	8	11
Ind.								2	2	3	7	9	7	10	5	10	5	10	17	2
Ky.								1	1	0	1	1	0	0	5	5	2	3	2	0
Mo.									2	1	2	5	4	5	6	7	11	12	13	19
N. J.									2	3	4	8	9	9	12	8	6	6	6	9
W.Va.									1	1	3	1	1	1	3	5	5	6	3	3
Conn.									1	3	6	3	0	0	1	0	2	1	1	2
N. C.									2	0	0	0	0	0	2	2	0	0	2	5
La.									1	0	0	0	0	0	1	0	0	0	0	0
S. D.									1	1	3	3	0	0	0	0	0	4	11	9
Nev.										1	0	1	0	0	0	1	1	4	3	1
Ariz.											2	2	1	0	0	2	1	1	2	1
R. I.											2	2	0	0	4	4	4	3	0	0
Del.											2	3	2	2	1	0	0	0	0	0
Idaho											2	1	1	4	5	6	4	8	8	8
Miss.											1	0	0	0	0	3	2	1	1	2
Mont.											1	2	0	0	0	0	0	2	4	3
Tenn.											1	8	4	6	3	3	4	2	2	2
N. M.												1	0	0	0	1	1	1	0	1
Wyo.												1	0	1	0	0	0	0	1	0
Ala.													2	1	3	1	1	0	0	0
Ga.													1	0	0	0	0	0	0	0
N. D.													1	1	1	2	6	8	5	3
Okla.														1	1	2	1	3	5	5
S. C.														1	1	1	0	0	0	0
Texas														3	0	0	0	0	0	0
Ark.															1	2	2	2	0	0

Total 1 4 6 25 40 64 82 100 163 211 346 459 353 385 468 452 513 627 732 777

Cow Testing Association Letter, Vol. 2, No. 2, Bureau of Dairying.

1/ No directory was issued July 1, 1924.

Table 8 - Cow Testing Association: Number of herds and cows under test Jan. 1, 1922.

Division and State <u>/1</u>	Associa-	Herds	Cows	Average per ass'n	
	-tions			Herds	Cows
	Number	Number	Number	Number	Number
Connecticut	2	36	690	18.0	345
Maine	1	16	137	16.0	137
Massachusetts	6	145	2,289	24.2	382
New Hampshire	4	81	1,460	20.2	365
New Jersey	9	224	5,075	24.9	564
New York <u>/2</u>	28	594	12,354	23.8	494
Pennsylvania	43	990	15,076	23.0	351
Vermont	23	503	9,623	21.9	418
North Atlantic	116	2,589	46,704	22.9	413
Illinois	26	680	13,175	26.2	501
Indiana	25	616	8,084	24.6	325
Iowa	61	1,473	21,485	24.1	352
Kansas	11	256	3,790	23.3	345
Michigan	108	2,716	29,223	25.1	271
Minnesota	84	2,005	25,855	23.9	308
Missouri	19	452	6,990	23.8	368
Nebraska	6	125	2,287	20.8	381
North Dakota	3	44	778	14.7	259
Ohio	25	553	7,890	22.1	316
South Dakota	9	205	2,624	22.8	292
Wisconsin <u>/2</u>	169	4,440	64,477	26.6	386
North Central	546	13,565	186,658	24.9	343
Maryland	10	194	4,636	19.4	464
North Carolina	5	88	2,722	17.6	544
Virginia	18	329	9,286	18.3	516
West Virginia	3	54	920	18.0	307
South Atlantic	36	635	17,564	18.5	488
Mississippi	2	36	549	18.0	274
Oklahoma	5	69	1,060	13.8	212
Tennessee	2	33	1,032	16.5	516
South Central	9	138	2,641	15.3	293
Arizona	1	44	1,290	44.0	1,290
Colorado	6	104	1,723	17.3	287
Idaho	8	321	3,793	40.1	474
Montana	3	63	1,222	21.0	407
Nevada	1	3	90	3.0	90
New Mexico	1	29	566	29.0	566
Utah	4	185	2,150	46.2	538
Mountain	24	749	10,834	31.2	451
California	30	1,207	48,501	40.2	1,617
Oregon	8	393	7,226	49.1	903
Washington <u>/2</u>	8	234	7,525	46.8	941
Pacific	46	1,834	63,252	42.7	1,375
Total and Average	777	19,540	327,653	25.4	427

Compiled from Cow Testing Association Letter, Vol. 2, No. 2, Bureau of Dairying.

¹/ Only states having cow testing associations are listed.

²/ New York reported data for 25 associations; Wisconsin reported data for 167 associations; Washington reported herds for 5 and cows for 8 associations. These numbers are used in computing averages for the last two columns.

Table 9 - Dairy bull associations: Number active July 1, 1908-1923 and January 1, 1925 and 1926 71

State	'03	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'25	'26
Mich.	3	7	8	9	7	8	9	8	8	8	7	7	7	7	5	7	6	4
Minn.		1	1	1	1	2	2	2	3	3	3	4	6	15	19	17	18	19
Md.				1	1	1	1	1	1	1	1	2	2	2	2	2	3	3
N. D.					2	1	1	1	1	1	1	1	1	1	1	2	3	2
Vt.							1	1	1	1	1	2	3	5	4	2	2	1
Ore.								1	2	2	2	2	2	2	2	1	1	1
Wis.								1	1	1	1	2	1	3	4	4	0	0
Ill.									1	1	1	1	1	1	6	7	8	11
Iowa									1	1	1	1	1	1	2	2	2	2
Mass.									1	1	1	1	0	0	0	0	0	0
N. C.									1	4	5	8	9	9	9	9	3	2
S. C.									3	9	9	11	17	20	23	16	10	9
Pa.										2	4	10	21	21	27	24	28	38
Mo.										1	1	1	3	7	10	10	10	12
Ind.											1	3	5	7	7	7	4	3
Utah											3	2	2	2	3	8	14	14
Mont.											1	2	2	2	0	1	1	1
Kan.											1	1	1	1	1	2	1	1
Ala.												1	7	7	7	7	7	0
Ga.												2	1	1	0	0	2	2
La.												1	1	1	1	1	1	3
Miss.												6	11	12	10	9	8	7
N. J.												1	4	6	8	8	2	0
R. I.												1	1	1	1	0	0	0
Tenn.												2	2	2	2	4	4	4
Wash.												1	2	2	3	3	4	4
Wyo.												2	2	2	2	2	1	1
Ark													3	2	4	6	6	7
Idaho													3	6	9	29	32	32
Nevada													1	1	1	1	1	2
Okla.													1	1	1	4	7	7
Kv.														3	7	9	17	18
Conn.														1	1	2	2	2
N. H.														1	0	0	0	0
Va.														1	1	2	2	2
W. Va.														1	1	1	0	0
Fla.														1	1	1	0	0
Nebr.															1	2	4	5
Ohio															2	2	3	3
Texas															2	2	0	0
Maine																2	1	0
N. M.																	1	1
S. D.																	1	2
Total	3	8	9	11	11	12	14	15	24	36	44	78	123	153	190	218	220	225

Cow Testing Association Letter, Vol. 2, No. 2. Bureau of Dairying.

1/No directory was issued July 1, 1924.

Table 10 - Dairy Bull Associations: Summary by Divisions and States, Jan. 1, 1926

Division and State	Asso- : Members :		Bulls :		Breeds used /2						Purebred :		Others :		Total
	No. :	Number :	No. :	Number :	J. :	G. :	H. :	A. :	B.S. :	S.H. :	Number :	Number :	Number :	Number :	
Conn.	2	28	8	4			4				231	286			517
Pa.	38	540	158	33	15	97	7	3	3		3,887	4,180			8,067
Vt.	1	11	4	4							71	123			194
N. Atl.	41	579	170	41	15	101	7	3	3		4,189	4,589			8,778
Ill.	11	334	64	21	22	21					378	2,242			2,620
Ind.	3	66	10	7		3					57	414			471
Ia.	2	24	10			10					52	325			377
Kan.	1	18	5			5					78	175			253
Mich.	4	125	15		3	12					420	830			1,250
Minn.	19	612	92		57	35					33	2,443	4/4		2,476
Mo.	12	320	48	45		3					323	1,777			2,100
Nebr.	5	61	20	4		16					95	535			630
N. D.	2	29	13			6	7				17	367			384
Ohio	3	-	12	7		5					3/	3/	3/		3/
S. D.	2	27	18			18					0	202			202
N. Cent.	64	1,616	307	84	82	134	7				3,453	9,310			12,763
Ga.	2	17	7	7							24	160			184
Md.	3	14	14		9	5					125	255			380
N. C.	2	336	20		20						404	1,190			1,594
S. C.	9	212	34	23	11						258	985			1,243
Va.	2	86	12		8	4					51	332			383
S. Atl.	18	665	87	30	48	9					862	2,922			3,784
Ark.	7	576	39	33	6						236	902			1,138
Kv.	18	765	56	49	3	4					456	2,326			2,782
La.	3	82	11	11							0	3/	4/		350
Okla.	7	263	31	28		3					805	1,124			1,929
Miss.	7	302	29	29							283	1,307			1,590
Tenn.	4	202	19	19							400	726			1,126
S. Cent.	46	2,190	185	159	9	7					2,180	6,385			8,565
Idaho	32	807	159	48	16	95					331	5,080			5,411
Mont.	1	35	5		5						0	185			185
Nev.	2	41	6	3		3					22	245			267
New Mex.	1	12	4			4					43	134			177
Utah	14	569	61	16	9	36					292	1,895	4/2		2,187
Wyo.	1	19	3			3					0	135			135
Mountain	51	1,483	238	67	30	141					688	7,674			9,079
Ore.	1	38	5	5							75	240			315
Wash.	4	69	14	11	3						0	0	4/		461
Pacific	55	1,07	19	16	3						75	240			776
U. S.	225	6,640	1,006	407	187	392	14	3	3		9,447	31,120			43,853

Compiled from Cow Testing Association Letter, Vol. 2, No. 2, Bureau of Dairying.

1/ Only states listed that had Cow Testing Associations Jan. 1, 1926.

2/ J. stands for Jersey; G, Guernsey; H, Holstein; A, Ayrshire; B.S, Brown Swiss; S. H, Milking Shorthorn.

3/ Not reported. 4/ For some associations only totals are given.

ESTIMATED POPULATION UNITED STATES BY GEOGRAPHIC DIVISIONS Jan. 1, 1920 - 1926

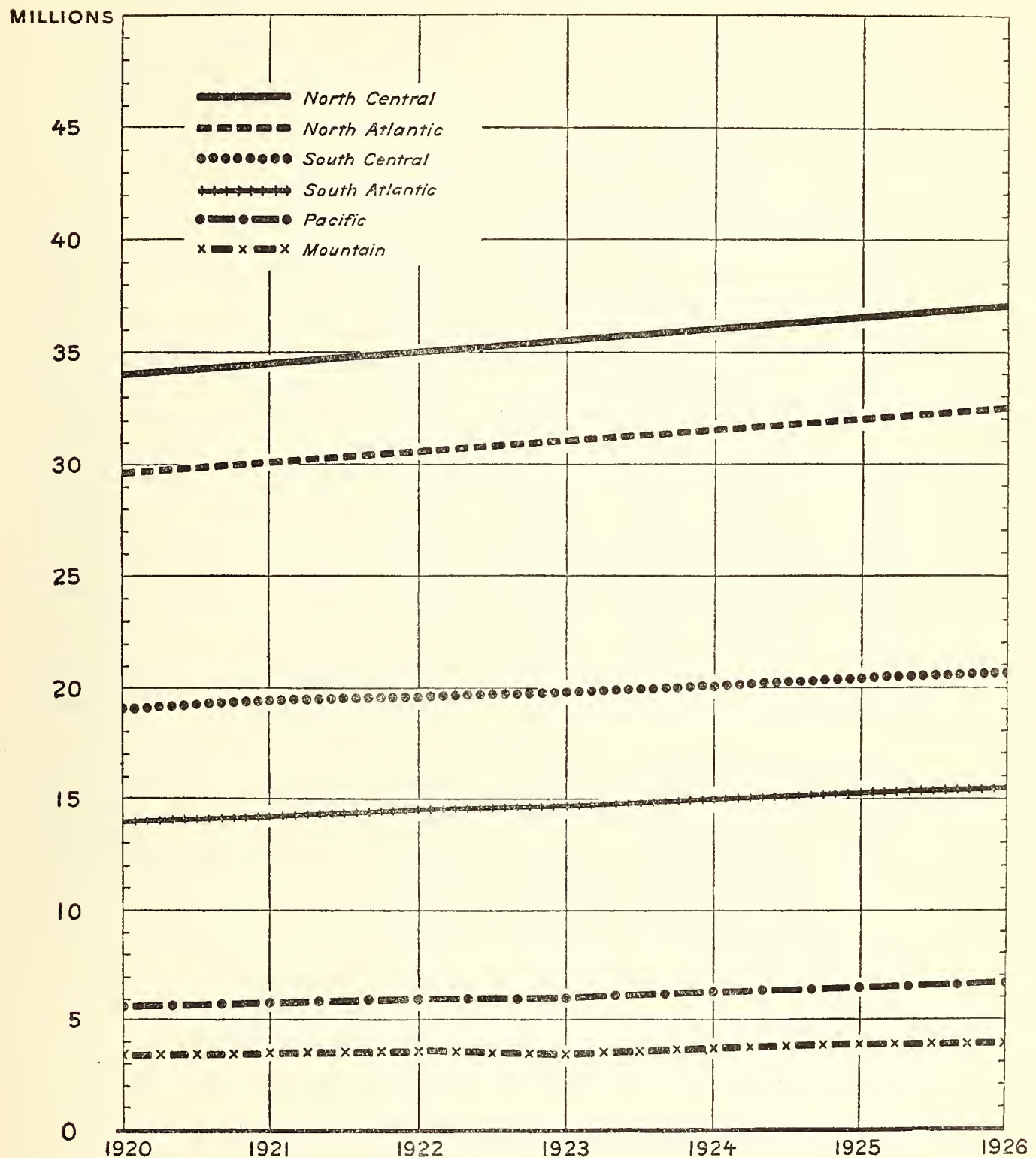


Fig. 21. The population of the United States is increasing nearly 1.8 millions per year: In the country as a whole the increase was about 10 per cent from 1920 to 1926. During this period the increase was 19 per cent in the Pacific States, 17 per cent in the Mountain States, 11 per cent in the South Atlantic States, 9 per cent in the North Atlantic States, 9 per cent in the North Central States and 8 per cent in the South Central States.

Table 11 - Estimated population by divisions and specified States, January 1,
1920 - 1926

Division and State	1920/1	1921	1922	1923	1924	1925	1926	Percent- age 1926 is of 1920
	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Thou- sands	Per cent
United States	105,711	107,433	109,169	110,793	112,710	114,553	116,257	110
North Atlantic	29,662	30,125	30,591	31,037	31,534	32,009	32,457	109
North Central	34,020	34,513	35,010	35,471	36,028	36,568	37,063	109
South Atlantic	13,990	14,247	14,506	14,750	15,034	15,300	15,547	111
South Central	19,136	19,382	19,630	19,859	20,137	20,410	20,658	108
Mountain	3,336	3,425	3,516	3,598	3,699	3,799	3,890	117
Pacific	5,567	5,741	5,916	6,078	6,276	6,467	6,642	119
Mountain States:								
Montana	549	571	593	613	638	662	684	125
Idaho	432	445	459	471	487	502	515	119
Wyoming	195	201	207	212	219	226	233	119
Colorado	940	957	975	992	1,012	1,032	1,050	112
New Mexico	360	365	369	373	377	382	386	107
Arizona	334	350	367	382	401	419	436	131
Utah	449	459	469	478	488	499	509	113
Nevada	77	77	77	77	77	77	77	100
Pacific States:								
Washington	1,357	1,384	1,411	1,436	1,467	1,497	1,524	112
Oregon	783	797	812	825	841	856	870	111
California	3,427	3,560	3,693	3,817	3,968	4,114	4,248	124

1/ Census 1920. Other years based on Census estimates.

Table 12 - Persons per dairy cow ^{/1}: Estimated number by divisions and specified States, January 1, 1920-1926.

Division and State	1920	1921	1922	1923	1924	1925	1926
United States	4.93	5.02	5.01	5.02	5.06	5.09	5.22
North Atlantic	8.79	8.98	9.14	9.24	9.61	9.96	10.35
North Central	3.18	3.22	3.18	3.17	3.14	3.11	3.14
South Atlantic	8.02	8.13	8.20	8.34	8.60	8.73	9.07
South Central	4.83	5.00	4.99	5.08	5.21	5.28	5.62
Mountain	4.75	4.84	4.77	4.72	4.61	4.50	4.58
Pacific	5.80	5.85	5.87	5.76	5.77	5.91	6.05
Mountain States							
Montana	3.71	3.86	3.83	3.78	3.67	3.54	3.56
Idaho	3.66	3.65	3.59	3.51	3.31	3.14	3.16
Wyoming	3.55	3.53	3.51	3.42	3.42	3.42	3.38
Colorado	4.65	4.74	4.73	4.75	4.66	4.61	4.73
New Mexico	6.21	5.98	5.86	5.92	5.98	5.97	6.03
Arizona	9.54	11.67	10.49	10.61	11.14	11.32	13.62
Utah	6.24	6.38	6.25	5.98	5.81	5.74	5.78
Nevada	5.50	5.13	4.81	4.53	4.28	4.05	3.85
Pacific States							
Washington	5.54	5.54	5.53	5.32	5.33	5.27	5.54
Oregon	3.92	3.95	4.02	4.02	3.86	3.80	3.95
California	6.65	6.72	6.71	6.58	6.67	7.03	7.04

^{/1} Cows and heifers 2 years old and over kept for milk.

PER CAPITA CONSUMPTION OF DAIRY PRODUCTS IN THE UNITED STATES
1917-1925

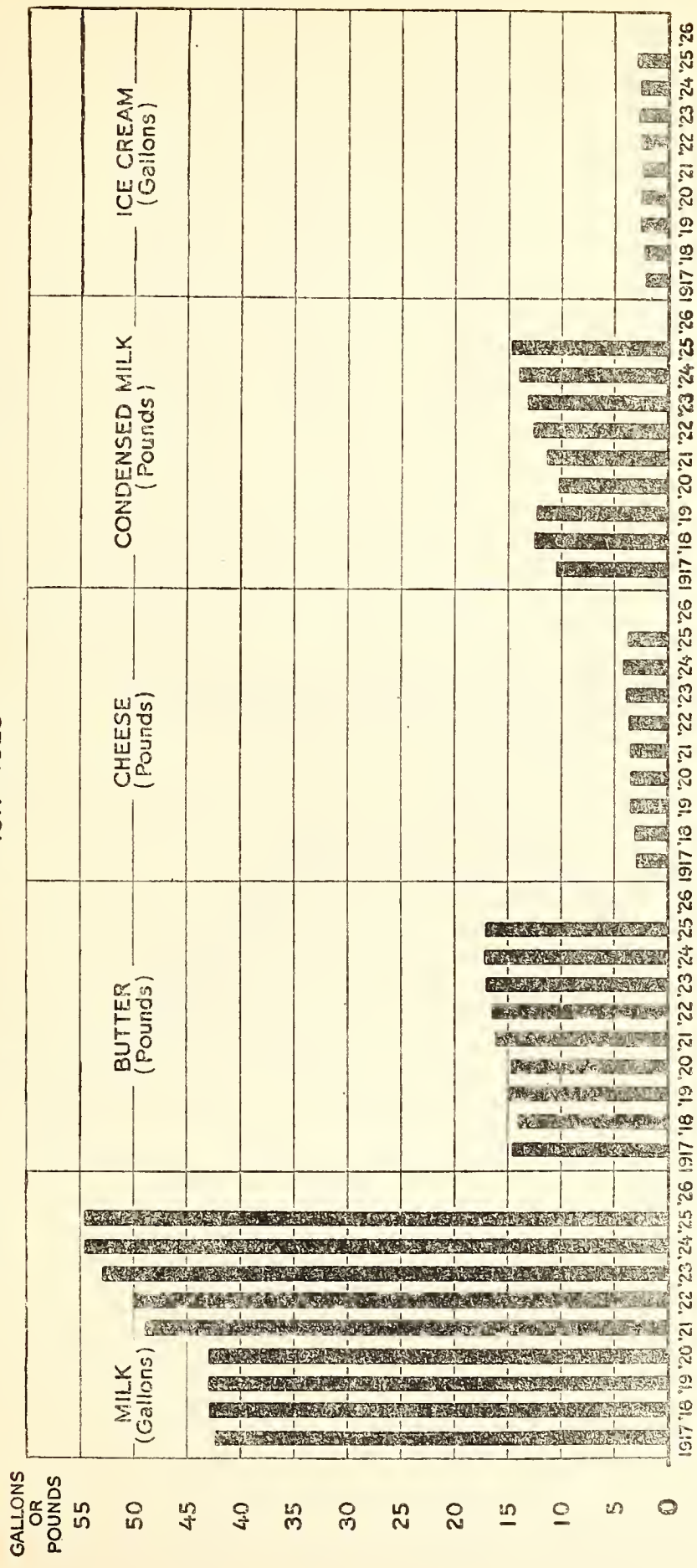


Fig. 22. There has been a decided upward trend in the per capita consumption of dairy products in the United States during recent years. Since 1917 the per capita consumption of condensed milk has increased 41 per cent; that of ice cream 35 per cent; cheese 31 per cent; fluid milk 29 per cent; and butter 16 per cent. Considering all dairy products together, the increase during this period was 32 per cent. Our present per capita consumption of dairy products is about as follows: milk 54.7 gallons, butter 17 pounds, cheese 3.8 pounds, condensed milk 14.8 pounds, ice cream 2.8 gallons.

Table 13 - Per capita consumption disappearance from trade channels of dairy products in the United States 1917 - 1925.

Year	Milk	Butter	Cheese	Condensed milk	Ice cream	Total in terms of fluid milk.	
	Gals.	Lbs.	Lbs.	Lbs.	Gals.	Lbs.	Gals.
1917	42.4	14.6	2.9	10.5	2.07	755	87.8
1918	43.0	14.0	3.0	12.5	2.14	754	87.7
1919	43.0	14.8	3.5	12.3	2.49	781	90.8
1920	43.0	14.7	3.5	10.2	2.46	773	89.9
1921	49.0	16.1	3.5	11.4	2.28	854	99.3
1922	50.0	16.5	3.7	12.7	2.43	879	102.2
1923	53.0	17.0	3.9	13.2	2.68	922	107.2
1924	54.7	17.2	4.2	14.0	2.50	944	109.8
1925	54.7	17.0	3.8	14.8	2.80	993	115.5
Per cent 1925 is of 1917	129	116	131	141	135	132	132

CONSUMPTION OF BUTTER MONTHLY, 1920-1924

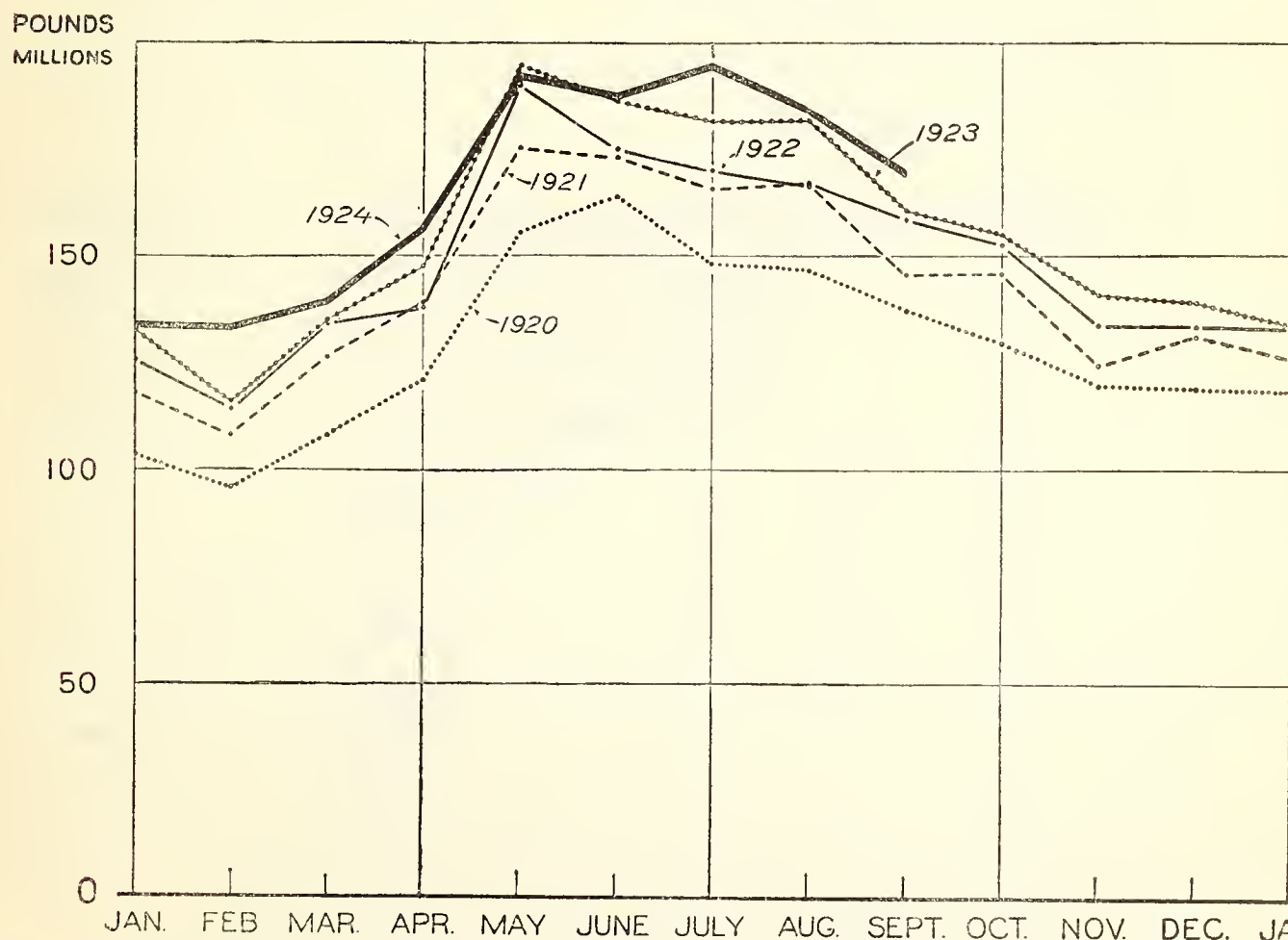


Fig. 23. The monthly consumption of butter in the United States is highest from April to August, that is, during the flush season of production, and lowest during the winter when production is slack.

YEARLY PER CAPITA CONSUMPTION OF BUTTER

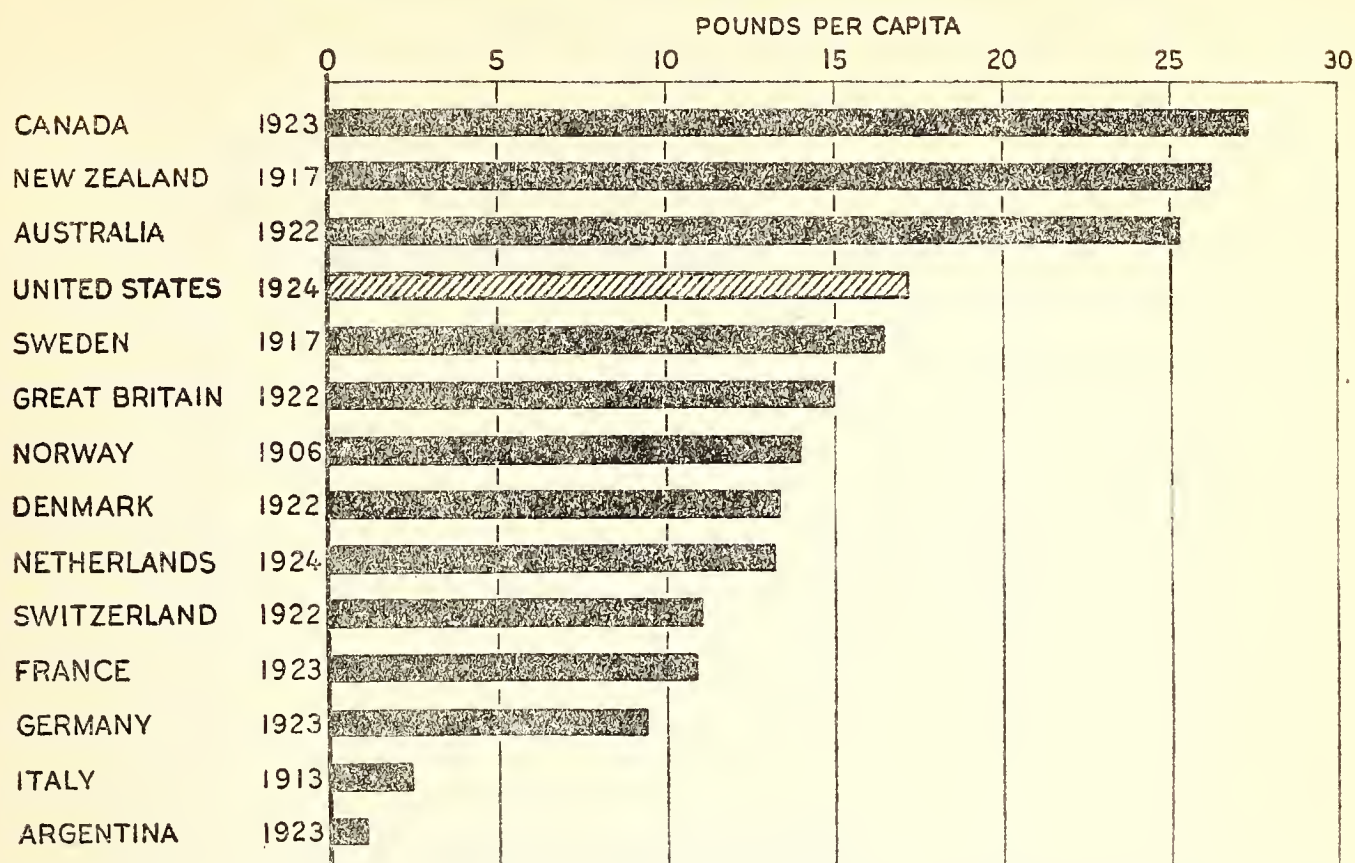


Fig. 24. The per capita consumption of butter varies widely in different countries. Canada ranks highest with about 27 pounds per capita and Argentina lowest with less than 2 pounds.

YEARLY PER CAPITA CONSUMPTION OF CHEESE

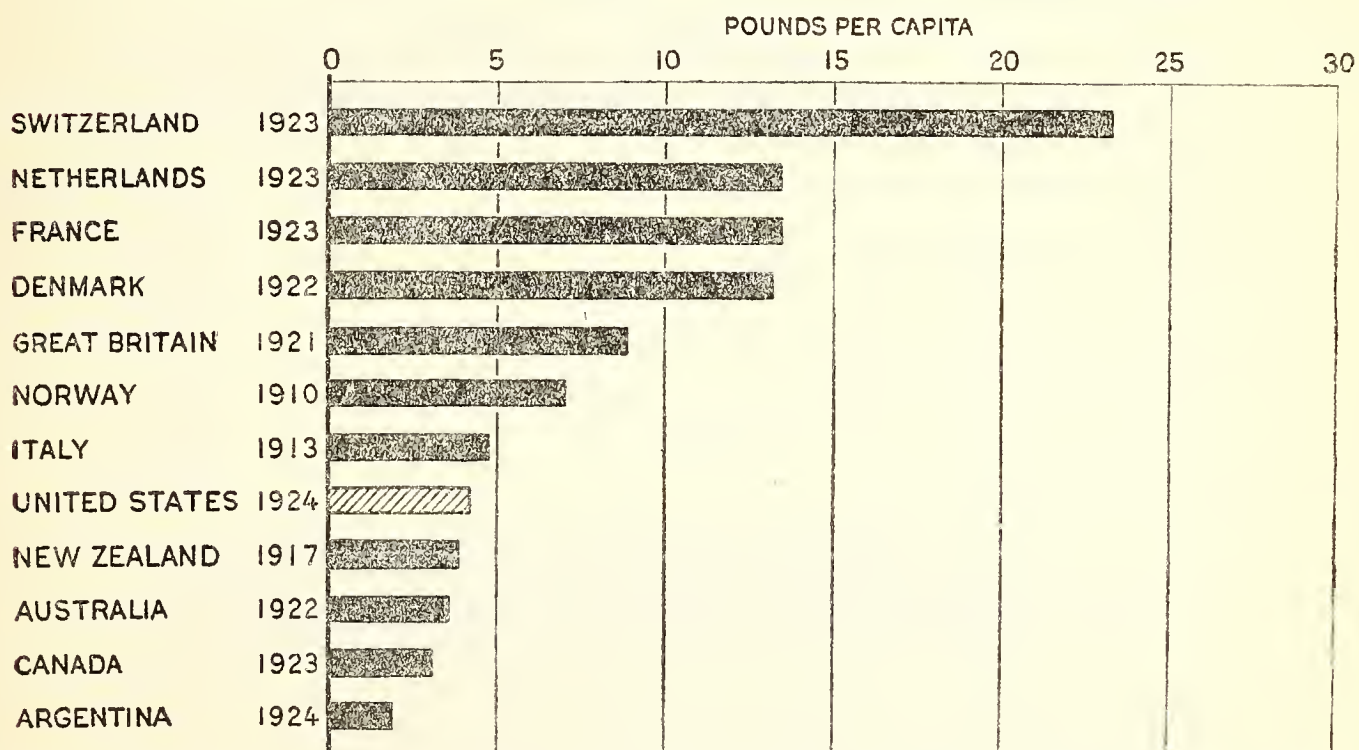


Fig. 25. The people of the United States are light consumers of cheese. In the Netherlands, France and Denmark the per capita consumption of cheese is nearly three times as great as it is in the United States; in Switzerland it is about six times as great.

USE OF MILK IN THE UNITED STATES 1921-1925

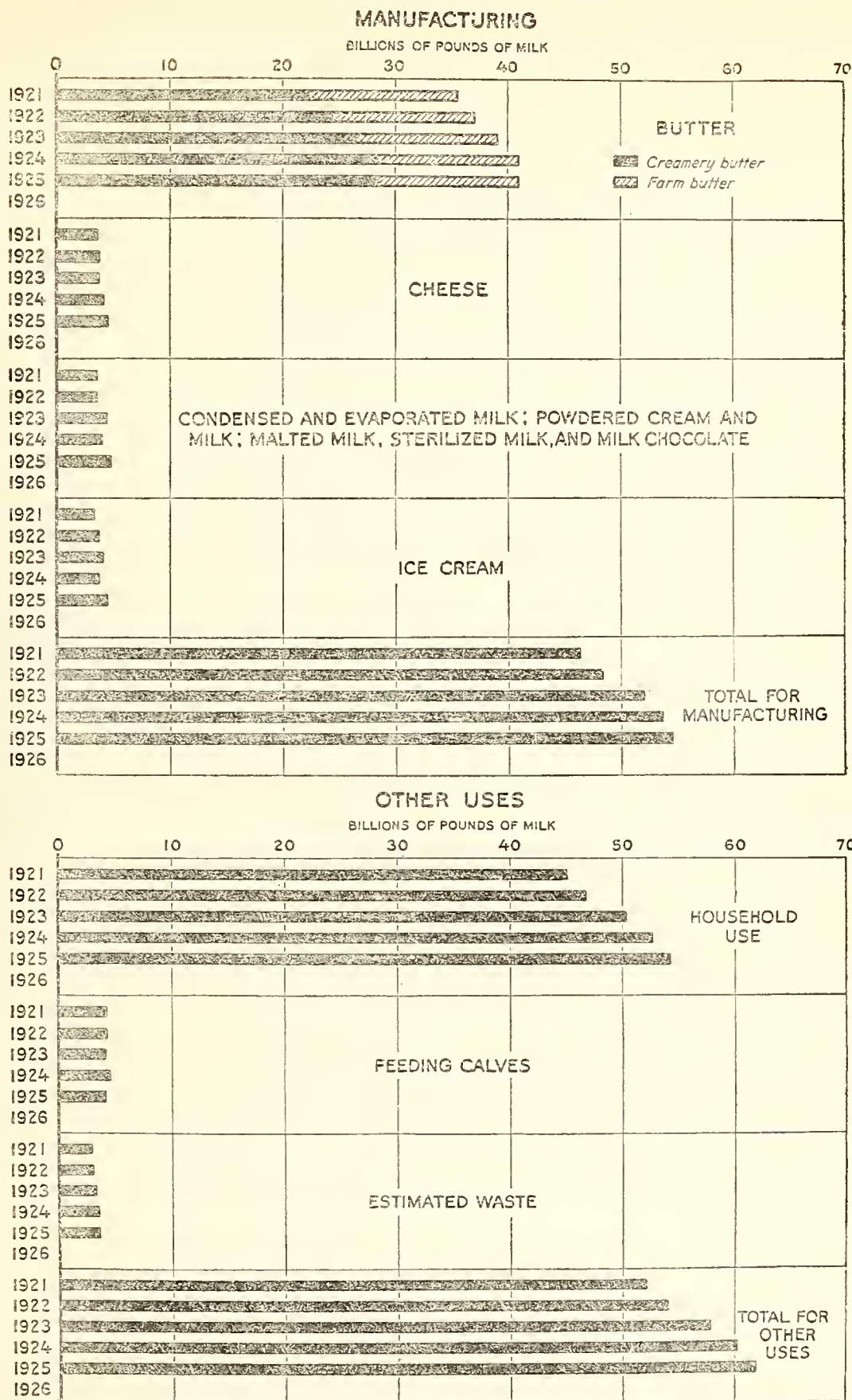


Fig. 26. The quantity of milk produced in the United States increased about 18 per cent from 1921 to 1925. Of the total amount of milk produced, about 47 per cent is used for manufacturing dairy products, 47 per cent for household use and about 6 per cent for feeding calves, waste, etc.

Table 14 - Milk: Production and use in the United States, 1920 - 1925

Products manufactured	1920	1921	1922	1923	1924	1925	Per cent 1925 is of 1920
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	
Milk used for manufacturing -							
Creamery butter	18,835	22,154	24,224	26,296	28,578	28,592	158
Farm butter	14,175	13,650	13,125	12,810	12,600	12,390	87
Total for butter	32,310	35,804	37,349	39,106	41,178	40,982	127
Cheese (all kinds)	3,824	3,558	3,750	3,989	4,179	4,475	125
Condensed and evaporated milk	3,945	3,650	3,579	4,437	4,251	4,395	111
Powdered milk	83	34	45	53	63	71	86
Powdered cream	6	3	2	6	19	6	100
Malted milk	43	34	30	34	35	40	93
Sterilized milk (canned)	6	5			15	1	17
Milk chocolate	50	40	100	150	159	229	382
Ice cream	3,575	3,355	3,623	4,055	3,926	4,438	124
Total for manufacturing	43,652	46,493	48,478	51,830	53,811	54,637	125
Milk used for other purposes -							
Household use ..	39,090	45,143	46,672	50,440	52,772	54,326	139
Feeding calves	4,202	4,260	4,335	4,174	4,643	4,047	96
Waste (Estimated)	2,713	2,966	3,077	3,292	3,440	3,495	129
Total other purposes	46,005	52,369	54,084	57,906	60,855	61,868	134
Total milk production	89,657	98,862	102,562	109,736	114,666	116,505	130

Table 15 - Milk: Production in the United States and percentages used for specified purposes, 1920 - 1925

Use of Milk	1920	1921	1922	1923	1924	1925
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds
Milk produced	89,657	98,862	102,562	109,736	114,666	116,505
Milk used for manufacturing -	Per cent	Per cent	Per cent	Per cent	Per cent	Per cent
Creamery butter	20.2	22.4	23.6	24.0	24.9	24.6
Farm butter	15.8	13.8	12.8	11.7	11.0	10.6
Total butter	36.0	36.2	36.4	35.7	35.9	35.2
Cheese (all kinds)	4.0	3.6	3.7	3.6	3.7	3.8
Condensed and evaporated milk	4.4	3.7	3.5	4.0	3.7	3.8
Powdered milk .....	.1	.1	.1	.1	.1	.1
Powdered cream	$\frac{1}{4}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$
Malted milk .....	.1	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$
Sterilized milk (canned) ..	$\frac{1}{1}$	$\frac{1}{1}$	-	-	$\frac{1}{1}$	$\frac{1}{1}$
Milk chocolatec.....	.1	.1	.1	.1	.1	.2
Ice cream	4.0	3.4	3.5	3.7	3.4	3.8
Total for manufacturing .	48.7	47.0	47.3	47.2	46.9	46.9
Milk used for -						
Household purposes	43.6	45.7	45.5	46.0	46.0	46.6
Feeding calves	4.7	4.3	4.2	3.8	4.1	3.5
Waste (estimated)	3.0	3.0	3.0	3.0	3.0	3.0
Total	51.3	53.0	52.7	52.8	53.1	53.1
All uses	100.0	100.0	100.0	100.0	100.0	100.0

$\frac{1}{4}$ Less than .05 per cent.

Table 16 - Dairy products manufactured in the United States, 1920 - 1925.

Products	1920	1921	1922	1923	1924	1925	Percent- age 1925 is of '20
	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	
Creamery butter	863.6	1,054.9	1,153.5	1,252.2	1,356.1	1,361.5	158
Farm butter	675.0	650.0	625.0	610.0	600.0	590.0	87
Total butter	1,538.6	1,704.9	1,778.5	1,862.2	1,956.1	1,951.5	127
Cheese (all kinds) .	362.4	355.8	375.0	398.9	417.9	447.5	123
Condensed and evapora: milk	1,578.0	1,464.2	1,431.3	1,774.9	1,700.5	1,757.9	111
Powdered milk	10.3	4.2	5.6	6.6	7.9	8.9	86
Powdered cream .....	.3	.1	.1	.3	1.0	.3	100
Malted milk	19.7	15.7	13.7	15.3	15.9	18.0	91
Sterilized milk(canned)	5.6	5.1	.3	.1	.5	1.6	29
Milk chocolatec.....	-	-	-	-	-	-	-
Ice cream	$\frac{1}{260.0}$	$\frac{1}{244.0}$	$\frac{1}{263.5}$	$\frac{1}{294.9}$	$\frac{1}{225.6}$	$\frac{1}{322.7}$	124

$\frac{1}{4}$ Gallons.

PRODUCTION OF CREAMERY BUTTER MONTHLY, 1920-1926

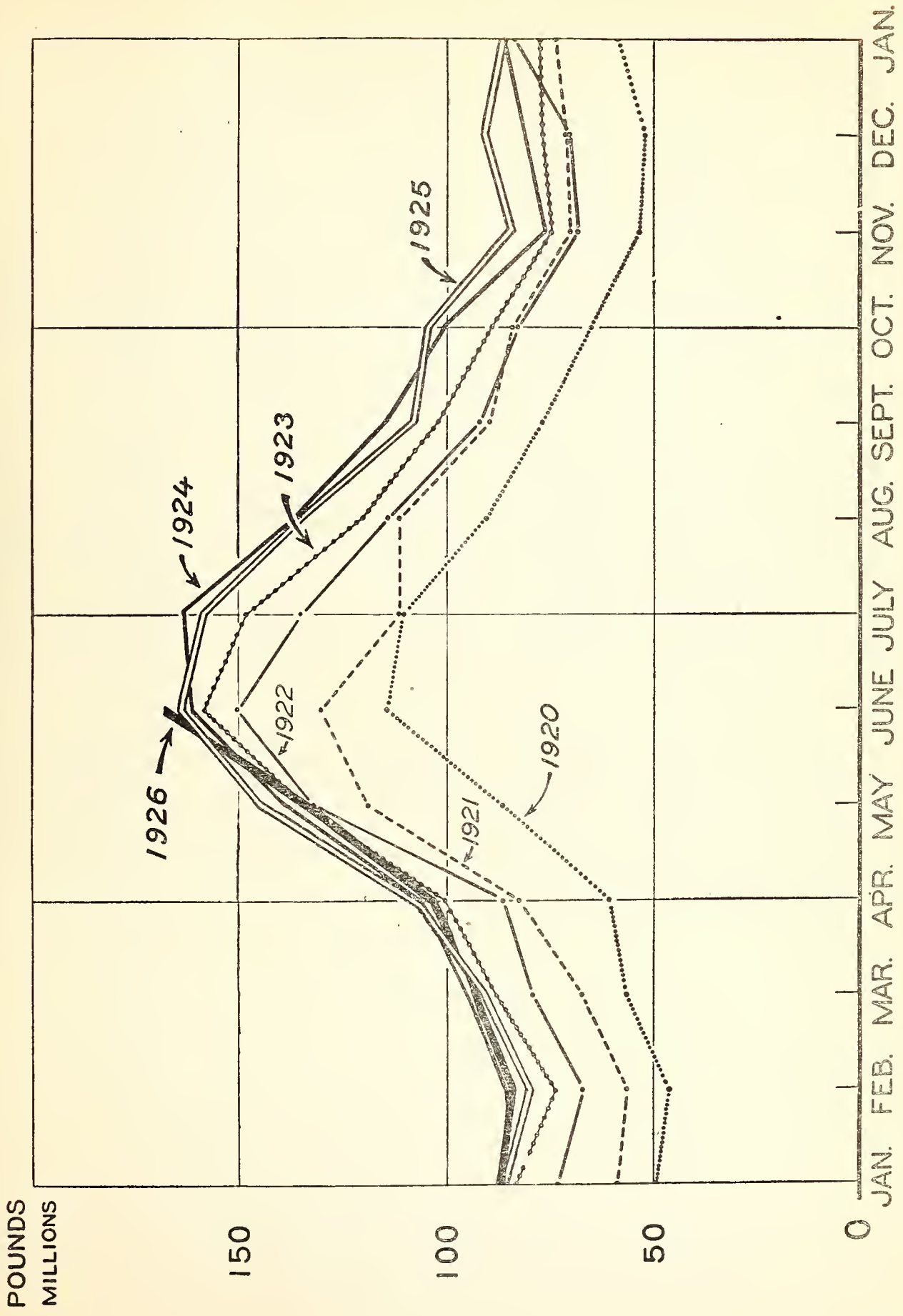


Fig. 27. There is a flush and a slack season in the production of creamery butter. The slack season usually extends from November to February. In March each year production begins to increase and usually reaches the peak in June. In 1924 production was greater than that of June.

Table 17 - Creamery butter: Production by divisions and specified states, 1919 - 1925

Division and State	1920	1921	1922	1923	1924	1925	Percent- age 1925 is of '20
United States	1,000 : pounds : 863,577:	1,000 : pounds : 1,054,938:	1,000 : pounds : 1,153,515:	1,000 : pounds : 1,252,214:	1,000 : pounds : 1,356,080:	1,000 : pounds : 1,361,526:	158
N. Atlantic	46,927:	60,221:	55,793:	47,906:	54,908:	41,363:	88
N. Central:	645,492:	796,881:	886,429:	960,126:	1,044,601:	1,071,272:	166
S. Atlantic	5,225:	6,333:	7,532:	9,275:	9,786:	9,098:	174
S. Central:	35,923:	46,911:	50,008:	56,455:	59,993:	59,325:	165
Mountain :	30,101:	37,265:	42,415:	51,715:	60,959:	60,849:	202
Pacific :	99,909:	107,327:	111,338:	126,737:	125,833:	119,619:	120
Mountain States-	:	:	:	:	:	:	:
Montana :	5,168:	7,439:	7,713:	10,667:	13,874:	13,968:	270
Idaho :	4,660:	4,935:	7,582:	9,883:	13,431:	15,101:	324
Wyoming :	875:	1,277:	1,403:	1,894:	1,941:	1,999:	228
Colorado:	12,979:	15,290:	16,410:	18,625:	18,130:	18,794:	145
New Mex.:	6:	29:	129:	185:	251:	326:	5,433
Arizona :	828:	1,358:	623:	600:	2,107:	1,034:	125
Utah :	3,567:	4,549:	5,913:	7,500:	8,585:	7,034:	197
Nevada :	2,018:	2,388:	2,642:	2,361:	2,640:	2,593:	128
Pacific States-	:	:	:	:	:	:	:
Wash. :	23,751:	23,228:	24,239:	26,666:	29,331:	25,673:	108
Oregon :	14,288:	15,289:	17,158:	18,128:	20,993:	21,575:	151
Calif. :	61,870:	68,810:	69,941:	81,943:	75,509:	72,371:	117

PRODUCTION OF CREAMERY BUTTER

MONTHLY, 1920 - 1925

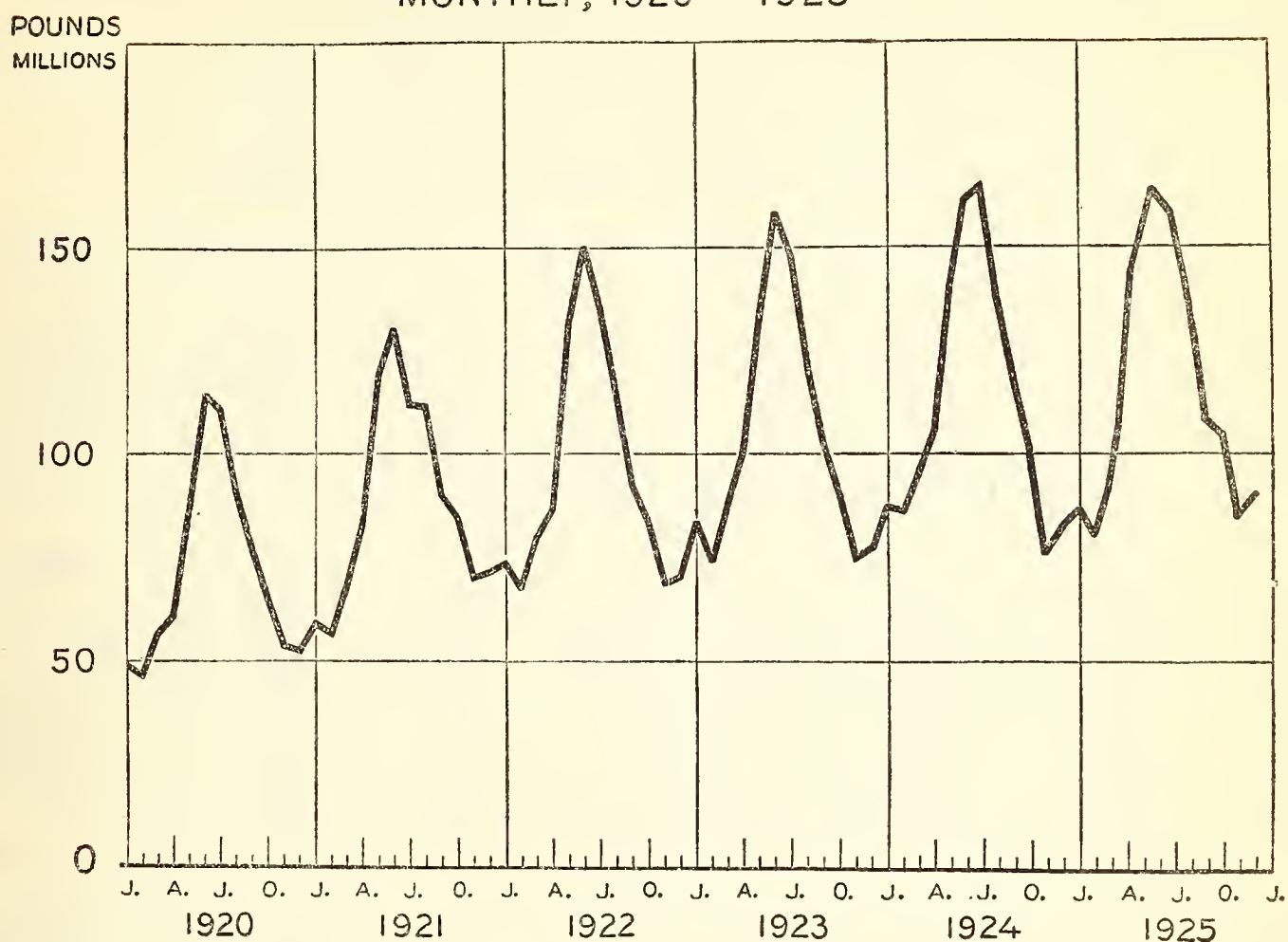


Fig. 28. This chart shows (1) marked upward trend in the monthly production of creamery butter in the United States from 1920 to 1925 and (2) the difference between the highest monthly production during the flush season and the lowest monthly production during the slack season. This difference, from 1920 to 1925, ranged from about 70 to 90 million pounds.

Table 18 - Cheese: Production by divisions and specified States, 1920 - 1925

Division and State	Total cheese (not including cottage, pot and bakers')						Per cent 1925 is of 1920
	1920	1921	1922	1923	1924	1925	
	1,000	1,000	1,000	1,000	1,000	1,000	
	pounds	pounds	pounds	pounds	pounds	pounds	
United States -	351,505	352,650	365,316	390,425	409,865	443,514	126
North Atlantic	59,561	64,305	72,538	59,823	63,010	64,631	109
North Central	269,624	263,911	265,474	304,350	315,671	346,702	129
South Atlantic	372	307	265	278	279	155	42
South Central	26	104	129	335	437	367	1,412
Mountain	4,278	5,443	10,539	10,353	13,548	14,417	337
Pacific	17,645	18,580	16,371	15,286	16,920	17,242	98
Mountain States							
Montana	266	196	322	726	972	1,365	513
Idaho	1,727	2,117	3,368	5,316	7,670	7,423	430
Wyoming	1,180	1,543	3,416	1,791	1,945	1,923	163
Colorado	106	85	69	162	469	1,288	1,215
New Mexico	-	-	74	135	92	56	-
Arizona	150	450	47	84	159	543	362
Utah	849	1,027	3,219	2,139	2,162	1,753	206
Nevada	-	25	24	-	79	66	-
Pacific States							
Washington	1,444	2,130	3,146	3,062	3,264	3,389	235
Oregon	8,482	8,900	8,852	7,816	10,073	10,030	118
California	7,719	7,550	4,373	4,408	3,583	3,823	50

This table includes:-

American cheese -

Whole milk

Part skim

Full skim

Swiss cheese (including block)

Brick and Munster cheese

Limburger cheese

Cream and Neufchatel cheese

All Italian varieties

All other varieties.

CREAMERY BUTTER **ESTIMATED PRODUCTION IN UNITED STATES** **PACIFIC, AND MOUNTAIN STATES** 1920-1925

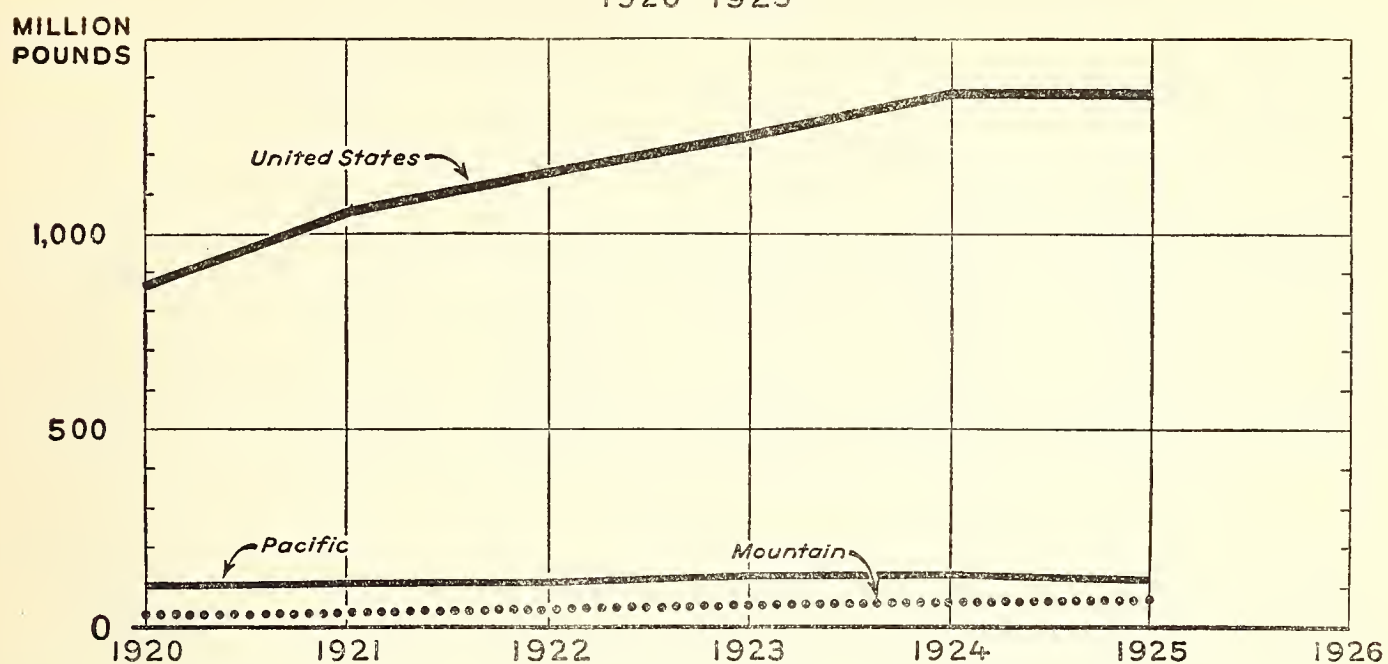


Fig. 29. The production of creamery butter in the United States increased 58 per cent from 1920 to 1925. During this period the increase was 102 per cent in the Mountain States and 20 per cent in the Pacific States.

CHEESE **ESTIMATED PRODUCTION IN UNITED STATES,** **PACIFIC, AND MOUNTAIN STATES** 1920-1925

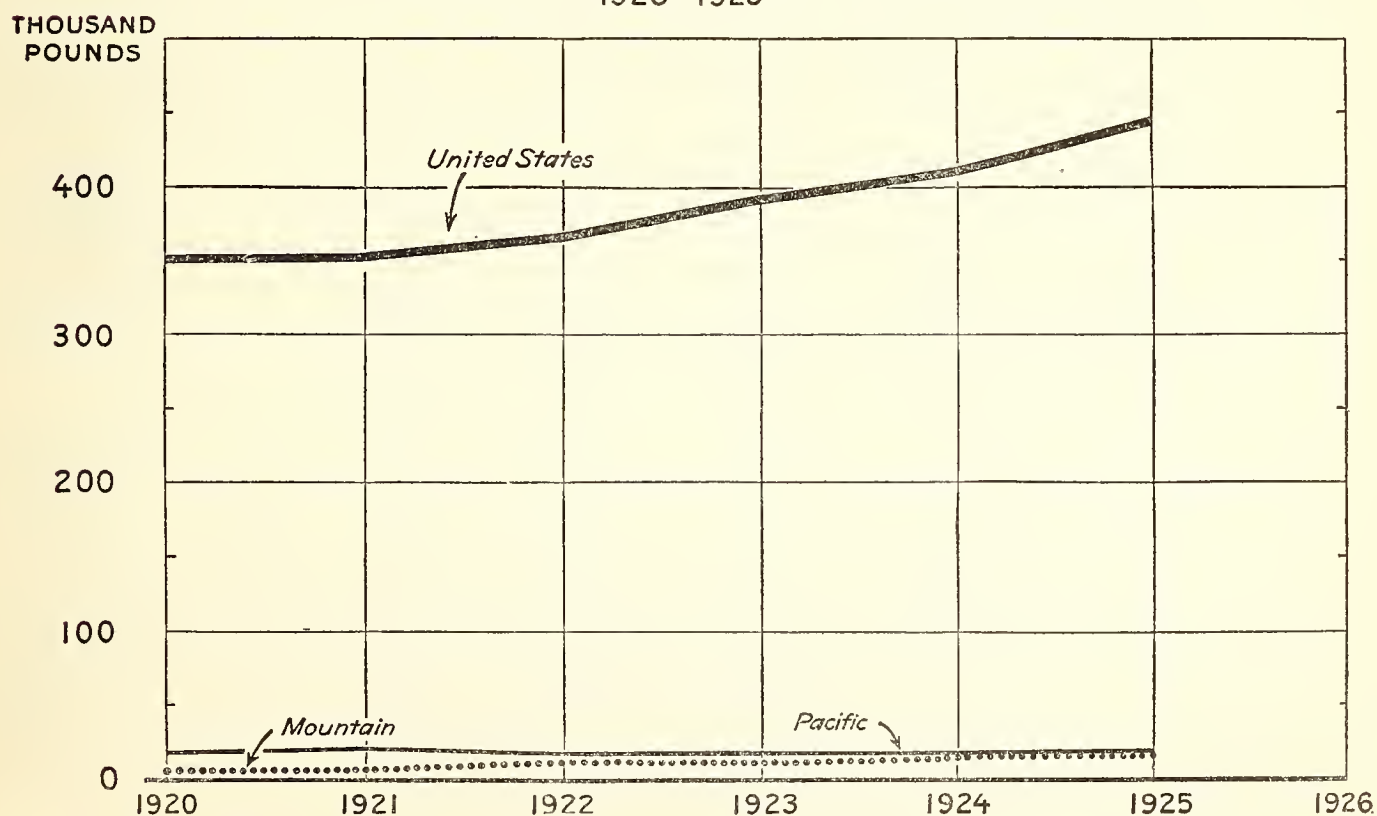


Fig. 30. From 1920 to 1925 cheese production in the United States increased 26 per cent. In the Mountain States the increase was 237 per cent while in the Pacific States there was a decrease of 2 per cent.

Table 19 - Condensed and evaporated milk: Quantity manufactured by divisions and specified States, 1920 - 1925

Division : and State :	1920	1921	1922	1923	1924	1925	Percentage of 1920 Per cent
	Unskimmed condensed and evaporated milk						1925 is
	pounds						of 1920
United States ...	1,416,262	1,323,626	1,280,745	1,585,446	1,507,237	1,547,577	109
N. Atlantic	406,234	339,274	421,474	437,031	318,151	330,698	81
N. Central	763,870	709,479	587,945	845,737	870,843	884,874	116
S. Atlantic	4,960	13,058	11,414	11,655	12,311	10,398	210
S. Central	209	232	59	723	95	230	110
Mountain	51,070	52,793	54,271	64,651	72,528	71,298	140
Pacific	189,919	208,790	205,582	225,649	233,309	250,079	132
Mountain:-							
Montana	-	-	-	-	-	-	-
Idaho	15,375	17,835	10,661	13,668	11,365	8,956	58
Wyoming	-	-	-	-	-	-	-
Colorado	15,619	17,756	19,256	22,018	25,953	25,538	164
New Mexico	-	-	-	-	-	-	-
Arizona	3,335	3,911	3,778	3,421	4,447	3,510	105
Utah	16,741	13,291	20,576	25,544	30,763	33,294	199
Nevada	-	-	-	-	-	-	-
Pacific:-							
Washington	80,115	95,862	82,202	89,902	81,321	85,803	107
Oregon	29,028	26,201	23,538	31,931	36,029	26,549	91
California	80,776	86,727	99,842	103,816	115,959	137,727	171
	Skimmed condensed and evaporated milk						
United States	161,753	140,537	150,604	189,435	193,311	210,281	130
N. Atlantic	55,006	46,158	49,675	73,671	66,076	73,084	133
N. Central	89,147	80,004	84,400	98,593	110,530	118,244	133
S. Atlantic	8,602	6,000	3,511	4,431	4,835	3,590	42
S. Central	500	151	68	487	572	2,824	565
Mountain	445	352	101	172	7	23	5
Pacific	8,053	7,872	12,849	12,081	11,291	12,516	155
Mountain:-							
Montana	-	-	-	-	-	-	-
Idaho	37	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-
Colorado	89	127	-	136	-	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	117	110	30	36	5	23	20
Utah	202	115	20	-	-	-	-
Nevada	-	-	51	-	2	-	-
Pacific:-							
Washington	3,575	2,130	2,267	372	382	641	18
Oregon	1,790	796	900	2,280	1,723	3,062	171
California	2,688	4,946	9,682	9,429	9,186	8,813	328

CONDENSED AND EVAPORATED MILK ESTIMATED PRODUCTION IN UNITED STATES, PACIFIC, AND MOUNTAIN STATES 1920-1925

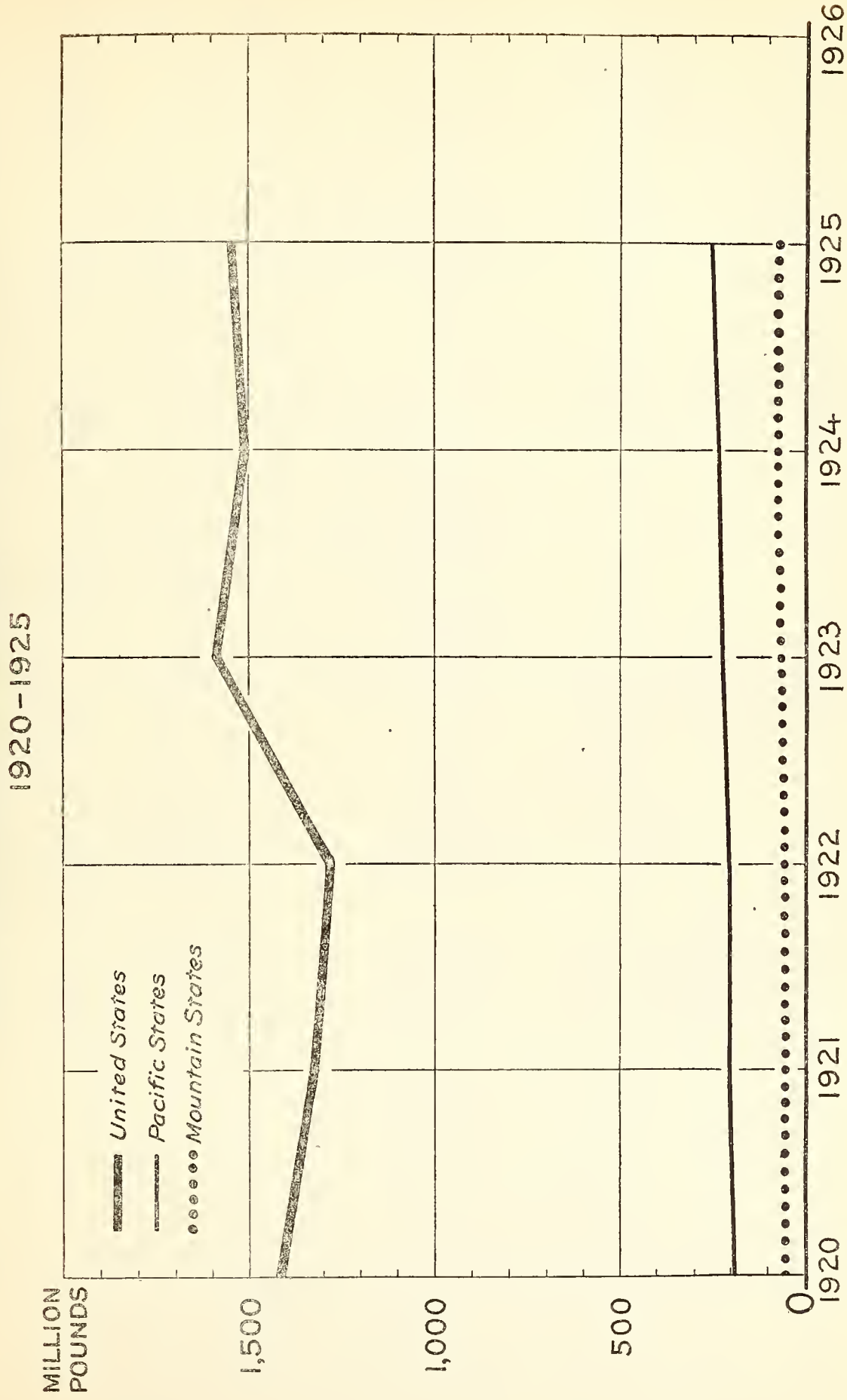


Fig. 31. The production of unskimmed condensed and evaporated milk in the United States increased 9 per cent from 1920 to 1925. In the Mountain States the increase was 40 per cent and in the Pacific States 32 per cent. The peak year of production in the United States as a whole, during this period was 1923.

Table 20 - Butter: International trade, average 1909-1913, annual 1923-1925

Country	Year ended December 31							
	Average 1909-1913				1923			
	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports
	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Principal exporting countries-								
Argentina	113	6,934	6	61,486	3	65,437	-	57,306
Australia	46	77,859	1/2	53,798	-	111,086	-	2/128,497
Canada	3,388	3,973	2,738	13,174	1,174	22,344	100	26,647
Denmark	6,241	195,530	1,593	246,157	2,049	272,033	1,741	270,674
Estonia	-	-	-	5,174	-	7,025	-	13,428
Finland	2,370	26,337	103	14,476	14	18,184	4	29,081
Irish Free State	-	-	-	-	8,789	51,187	9,476	44,975
Italy	972	7,870	526	2,905	1,002	6,436	259	8,010
Latvia	-	-	48	6,399	1	8,085	-	15,611
Netherlands	4,987	75,133	1,687	52,769	3,613	76,570	5,756	87,598
New Zealand	47	38,761	7	140,016	1	142,179	-	139,476
Persia	2,201	3,059	2/443	2/648	-	-	-	-
Russia	2,202	150,294	-	2/10,978	-	2/49,462	-	-
Sweden	330	45,870	3,499	5,420	1,234	11,827	410	20,336
Principal importing countries-								
Algeria	1,946	9	1,271	35	1,553	36	2/1,830	-
Austria	-	-	3,600	1	3,864	2/10	2/2,521	-
Austria-Hungary	6,281	4,267	-	-	-	-	-	-
Belgium	14,024	3,125	21,337	220	10,318	543	9,202	870
Brazil	4,551	5/4	8	19	-	-	-	-
China	6/1,677	-	1,702	-	1,621	-	-	-
Cuba	1,459	-	2,317	-	2,477	-	-	-
Czechoslovakia	-	-	7,806	24	3,637	2/58	1,230	-
Dutch East Indies	4,152	-	7,322	-	7,092	-	-	-
Egypt	2,350	5/166	1,672	74	2,354	57	2,384	56
France	13,713	40,769	20,876	17,314	6,862	8,983	7,405	9,191
Germany	111,441	498	2,903	147	117,896	59	212,993	304
Greece	206	8	5,677	6	10,727	-	2/546	-
Norway	976	3,137	5,826	26	1,276	419	1,465	473

Table 21. Cheese: International trade, average 1909-1913, annual 1923-1925.

Country	Year ended December 31											
	Average			1923			1924			1925		
	Imports	Exports	1909-1913	Imports	Exports	Imports	Imports	Exports	Imports	Exports	Imports	Exports
Principal exporting countries	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Argentina	10,447	1/	6	2,359	11,670	2,546	3,461	414	-	-	-	414
Australia	360	799	2/	1,422	3,788	-	6,678	9,552	-	-	3/	9,552
Bulgaria	52	5,972	3/	34	1,175	15	258	-	-	-	-	-
Canada	1,054	167,260	4/	1,900	116,202	909	121,466	150,743	10,274	150,743	-	-
Czechoslovakia	-	-	-	1,999	3,917	1,671	5,431	8,048	1,777	8,048	-	-
Denmark	1,414	527	-	721	12,038	673	19,480	18,783	853	18,783	-	-
Finland	478	2,086	-	23	2,944	36	5,613	8,421	-	8,421	-	-
Hungary	-	-	5/	10,228	1,160	1	1,344	1,271	1,643	1,271	6/	1,271
Italy	13,308	60,560	-	873	50,389	4,156	74,110	86,228	3,808	86,228	-	-
Netherlands	522	127,379	-	873	136,646	888	170,352	175,711	1,164	175,711	-	-
New Zealand	3	55,561	5/	-	161,444	19	178,582	154,196	-	154,196	-	-
Russia	3,911	7,011	-	-	-	-	-	-	-	-	-	-
Switzerland	7,150	70,075	3/	2,543	39,046	4,163	43,776	51,726	3,765	51,726	3/7/	4,197
Yugoslavia	-	-	-	118	9,309	191	7,439	-	-	-	-	-
Principal importing countries	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Algeria	6,592	138	-	7,415	189	7,547	174	-	7,884	-	-	629
Austria	-	-	-	9,847	317	10,142	1,189	6/	6,329	6/	-	-
Austria-Hungary	12,298	966	-	-	-	-	-	-	-	-	-	-
Belgium	31,771	354	-	39,553	1,039	37,643	1,513	1,794	38,274	-	-	-
Brazil	4,178	1	1/	254	3	-	-	-	-	-	-	-
British India	1,314	-	-	1,006	-	1,046	4	-	1,157	-	-	-
Cuba	4,520	7	-	5,065	3	5,697	8	-	-	-	-	-
Dutch East Indies	757	-	-	1,242	-	1,383	-	-	-	-	-	-
Egypt	8,182	48	8/	6,007	122	5,960	117	155	7,157	-	-	155

(continued)

Table 21. Cheese: International trade, average 1909-1913, annual 1923-1925. (continued)

Country	Year ended December 31									
	Average		1923		1924		1925			
	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports
Principal exporting countries. (cont'd)	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
France	49,056	26,880	45,690	27,908	39,044	34,394	40,559	35,689		
Germany	48,687	1,967	24,930	636	96,702	1,239	148,699	2,491		
Irish Free State	-	-	-	-	2,590	542	2,823	483		
Norway	663	377	1,962	697	1,106	737	1,302	702		
Spain	5,032	53	5,971	126	6,060	57	5,111	-		
Sweden	946	41	4,189	114	2,210	266	1,211	-		
Tunis	1,382	19	1,031	40	1,073	48	1,166	-		
Union of South Africa ..	4,991	3	832	118	552	127	169	163		
United Kingdom	257,407	950	313,280	946	318,041	843	331,886	1,950		
United States	46,346	5,142	64,420	8,331	59,176	4,299	62,403	9,190		
Other countries	12,596	3,942	16,176	2,907	14,192	2,906	4,097	2,852		
Total	535,417	538,124	571,090	593,224	625,432	686,453	683,571	725,388		

All cheese made from milk, including "Cottage cheese". 1/ Four-year average. 2/ Year beginning July 1. 3/ International Institute of Agriculture. 4/ Three-year average. 5/ Less than 500 pounds. 6/ Nine months. 7/ Eleven months. 8/ One year only. 9/ Ten months. 10/ Eight months.

Table 22 - Condensed Milk: International trade, average 1909-1913, annual 1923-1925

Country	Year ended December 31									
	Average 1909-1913		1923		1924		1925 preliminary			
	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports		
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds		
Principal exporting countries:-										
Australia <u>/1</u>	4,463	727	2/	79	2/12,726	-	-	-		
Canada	259	4,575	177	41,056	155	40,251	119	40,614		
Denmark	<u>3/</u>	4/4,724	4	66,969	-	71,198	-	57,739		
Italy	803	5,913	987	6,791	855	13,559	5/	709	5/	15,897
Netherlands	<u>6/</u>	55	163	227,393	236	233,901	291	248,674		
New Zealand <u>/1</u>	261	132	3	1,443	31	1,408	93	1,144		
Norway	3	32,106	989	16,069	685	13,311	1,169	16,848		
Switzerland	201	80,539	177	55,827	120	58,225	68	67,555		
United States	-	4/16,200	10,398	194,264	6,619	206,280	6,964	147,763		
Principal importing countries:-										
Argentina	742	-	1,016	156	946	13	549	3		
Belgium	<u>1/</u>	<u>1/</u>	668	104	1,399	281	4,313	1,096		
Brazil	8,694	-	645	-	-	-	-	-		
British India <u>/1</u>	11,236	-	7,083	217	8/10,033	8/	2/14,124	-		
China	4,484	-	9,443	-	9,461	-	-	-		
Cuba	28,457	-	46,948	-	47,974	-	-	-		
Egypt	<u>10/1,628</u>	-	1,546	125	1,740	160	1,171	253		
France	2,458	4,140	25,124	7,483	24,168	5,256	19,991	6,001		
Germany <u>/11</u>	66	12,080	8,872	582	26,753	570	28,392	1,428		
Japan	10,061	-	12,623	61	12,642	74	12/4,637	110		
Java and Madura	<u>3/</u> 6,136	<u>3/</u> 74	10,752	-	10,926	-	-	-		
Philippine Islands	12,311	-	16,855	-	17,890	-	-	-		
Spain	5,605	-	51	-	<u>13/</u> 3	-	-	-		

Table 22 - Condensed Milk: International trade, average 1909-1913, annual 1923-1925 (Continued)

Country	Year ended December 31						1925 preliminary	
	Average 1909-1913		1923		1924		Imports	Exports
	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports
	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Principal importing countries:								
(continued) -								
Sweden	28	92	190	20	150	51	91	-
Union of South Africa ..	21,227	14/	10,697	1	10,026	1	15/ 5,281	15/ 6
United Kingdom	121,175	48,221	249,859	13,825	244,379	11,023	247,523	14,299
Total twenty-five countries:	240,351	207,578	415,349	645,112	427,191	655,649	336,485	619,430
1/ Includes some preserved milk.				8/ Twelve months' sea-trade, three months' land-trade.				
2/ Year beginning July 1.				2/ Sea-trade only.				
3/ Two-year average.				10/ One year only.				
4/ Four-year average.				11/ Includes some powdered milk.				
5/ Eleven months.				12/ Five months.				
6/ Three-year average.				13/ Six months.				
7/ Not separately stated.				14/ Less than 500 pounds.				
				15/ Eight months.				

PRODUCTION OF POWDERED SKIM MILK, CHEESE AND BUTTER PERCENTAGE CHANGES FROM 1917

1917 - 1925

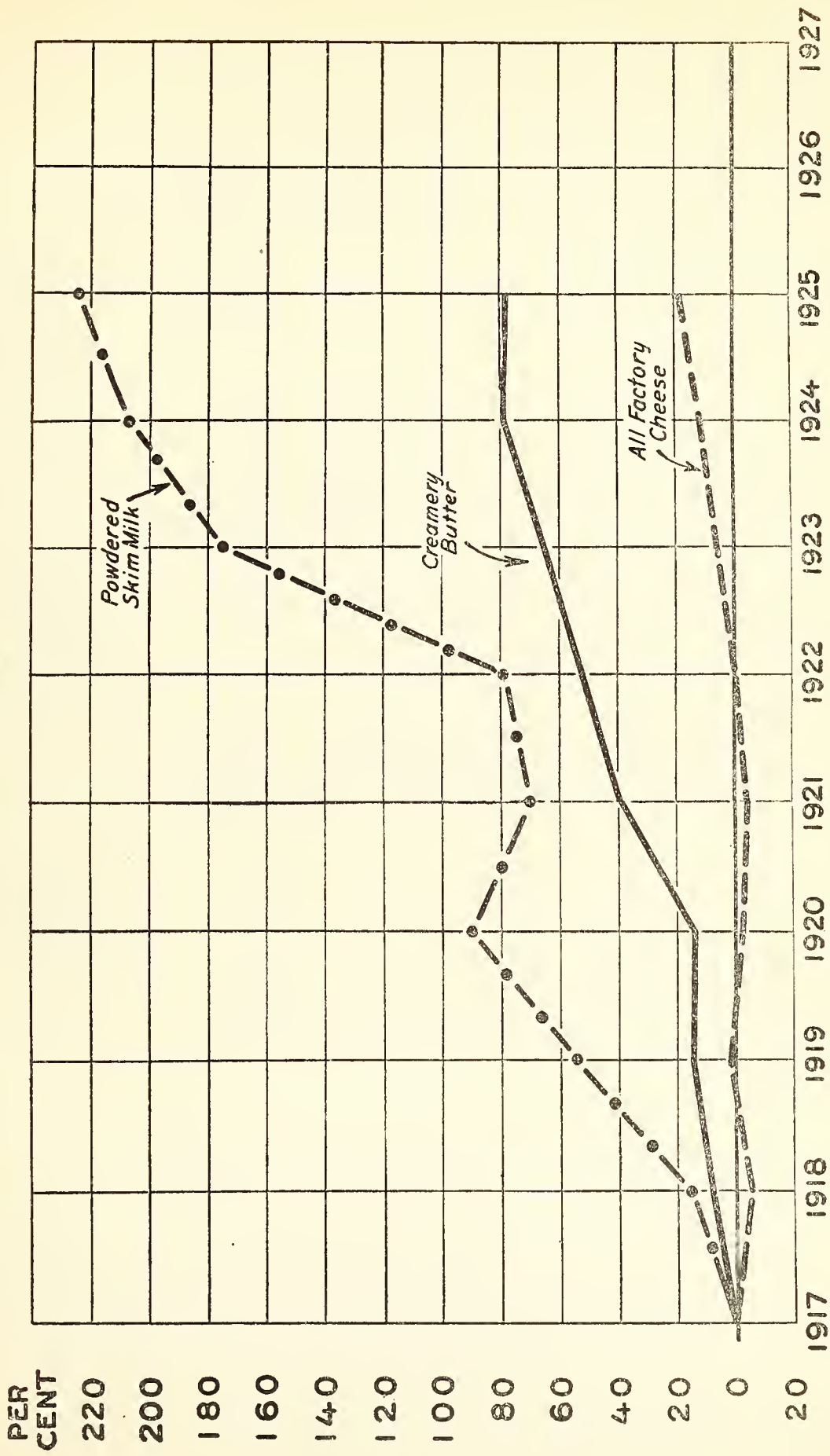


Fig. 32. The production of powdered skim milk in the United States in 1917 was 22,624,000 pounds. Production of this product increased 224 per cent from 1917 to 1925. During this period the production of creamery butter increased 78 per cent and that of all factory cheese 19 per cent.

Table 23. Dairy Products: Value of imports and exports, United States 1919-1925.

Item	Year ending December 31						
	1919	1920	1921	1922	1923	1924	1925
	1000 Dollars	1000 Dollars	1000 Dollars	1000 Dollars	1000 Dollars	1000 Dollars	1000 Dollars
General Imports:-							
Butter and substitutes	4,860	18,646	7,392	2,635	8,507	7,047	2,646
Cheese and substitutes	4,073	5,657	8,677	14,609	20,888	17,299	17,349
Milk - condensed, evaporated, sterilized and powdered.	2,080	3,332	1,420	688	1,429	1,145	1,280 ^{/1}
Milk and cream, fresh and buttermilk	1,850	2,702	2,991	3,141	5,621	6,969	8,834
Total.....	12,863	30,337	20,480	21,073	36,445	32,460	30,109
Domestic Exports:-							
Butter and substitutes	17,504	10,142	3,270	4,064	2,569	3,429	2,411
Cheese and substitutes	5,350	5,054	2,716	1,248	2,179	1,118	2,420
Milk - condensed, evaporated and powdered	121,893	65,239	37,680	19,464	22,497	22,962	17,939
Milk and cream, fresh and sterilized	1,730	382	480	129	92	60	67
Total.....	146,477	80,817	44,146	24,905	27,337	27,569	22,837
Foreign Exports:-							
Butter and substitutes	11	88	364	45	366	357	99
Cheese and substitutes	151	809	63	84	53	72	128
Milk and cream -- condensed or preserved	142	31	94	149	14	35	15
Total.....	304	928	521	278	433	464	242
Net Imports ^{/2}	-	-	-	-	8,675	4,427	7,030
Net Exports ^{/3}	133,918	51,408	24,187	4,110	-	-	-

Compiled from reports of Bureau of Foreign and Domestic Commerce.

^{/1} Includes powdered cream and malted milk 1925.

^{/2} General imports less the sum of domestic and foreign exports.

^{/3} The sum of domestic and foreign exports less general imports.

Table 24. Dairy Products: Imports into the United States by divisions and specific states, 1924 and 1925.

State and District	Butter	Cheese	Cream	Milk or sour and Butter- milk	Milk Condens- -ed or Evapor- ated un- sweet- ened	Milk Condens- -ed or Evapor- ated un- sweet- ened	Milk Powder	Milk Malted etc.
	1,000 pounds	1,000 pounds	1,000 gallons	1,000 gallons	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
United States	7,212	62,403	5,172	7,422	633	3,988	5,430	2,313
North Atlantic	4,159	51,646	4,843	7,415	629	3,958	4,289	1,110
North Central	828	5,200	322	5	1	-	865	1,113
South Atlantic	-	372	-	-	-	-	200	-
South Central	-	296	-	-	-	-	-	-
Mountain	-	30	2	-	-	-	-	-
Pacific	760	2,991	5	1	-	-	40	-
Alaska, Hawaii and Porto Rico	1,465	1,868	-	1	3	30	36	-
Mountain States	-	-	-	-	-	-	-	-
Arizona	-	26	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-
Utah	-	4	-	-	-	-	-	-
Montana & Idaho	-	-	2	-	-	-	-	-
Pacific States	-	-	-	-	-	-	-	-
Washington	117	228	5	1	-	-	-	-
Oregon	36	17	-	-	-	-	-	-
California	-	-	-	-	-	-	-	-
San Francisco	606	2,307	-	-	-	-	-	-
Los Angeles	1	439	-	-	-	-	40	-
United States	19,405	59,176	4,197	5,192	1,738	4,714	1,870	16
North Atlantic	17,096	50,040	3,969	5,161	1,733	4,652	1,671	1
North Central	783	3,988	221	24	1	1	151	-
South Atlantic	-	368	-	-	-	46	-	14
South Central	-	202	-	-	-	1	-	-
Mountain	-	88	1	-	-	-	-	-
Pacific	84	2,608	4	7	-	-	-	-
Alaska, Hawaii and Porto Rico	1,442	1,942	2	-	4	14	48	-
Mountain States	-	-	-	-	-	-	-	-
Arizona	-	83	-	-	-	-	-	-
Colorado	-	5	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Montana & Idaho	-	-	1	-	-	-	-	-
Pacific States	-	-	-	-	-	-	-	-
Washington	-	216	4	7	-	-	-	-
Oregon	-	6	-	-	-	-	-	-
California	-	-	-	-	-	-	-	-
San Francisco	84	2,015	-	-	-	-	-	-
Los Angeles	-	371	-	-	-	-	-	-

Compiled from reports of the Bureau of Foreign and Domestic Commerce.

Table 25. Dairy Products: Exports from the United States by divisions and specified states, 1924 and 1925.

State and District	Butter	Cheese	Milk		Milk		Milk	
			Fresh	Condensed	Fresh	Condensed	Evaporated	Milk
			Sterilized	Sweetened	Unsweetened	Powdered	Dried	
	1,000 pounds	1,000 pounds	1,000 gallons	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	
<u>1925</u>								
United States	5,343	9,190	86	42,707	105,056	3,649		
North Atlantic	2,341	3,671	60	21,269	68,390	2,768		
North Central	-	2,859	-	1	4,853	84		
South Atlantic	621	491	3	195	2,562	270		
South Central	1,393	1,458	1	2,520	1,310	110		
Mountain	60	93	1	64	267	3		
Pacific	896	579	20	13,643	27,639	412		
Alaska, Hawaii and Porto Rico	32	39	1	15	35	2		
Mountain States								
Arizona	60	88	1	64	267	2		
Colorado	-	-	-	-	-	-		
Utah	-	-	-	-	-	-		
Montana and Idaho	-	5	-	-	-	1		
Pacific States								
Washington	11	274	9	4,746	10,393	347		
Oregon	-	5	-	-	239	-		
California								
San Francisco	840	259	-	13,784	16,829	65		
Los Angeles	45	41	11	113	178	-		
<u>1924</u>								
United States	8,257	4,299	67	64,025	142,254	5,529		
North Atlantic	5,167	1,625	42	39,762	99,981	4,364		
North Central	86	233	3	54	13,260	36		
South Atlantic	691	657	1	935	4,205	9		
South Central	1,127	1,326	1	3,119	961	72		
Mountain	47	32	4	53	252	2		
Pacific	1,099	399	14	20,095	23,570	1,044		
Alaska, Hawaii and Porto Rico	40	27	2	7	25	2		
Mountain States								
Arizona	47	29	4	52	252	1		
Colorado	-	-	-	-	-	-		
Utah	-	-	-	-	-	-		
Montana and Idaho	-	3	-	1	-	1		
Pacific States								
Washington	17	85	9	7,216	10,435	469		
Oregon	-	-	-	19	27	-		
California								
San Francisco	1,033	269	-	12,716	12,937	574		
Los Angeles	49	45	5	144	171	1		

Compiled from reports of Bureau of Foreign and Domestic Commerce.

Table 26. Rates of duty on milk, cream and other dairy products. /1

Tariff Act	Fresh Milk	Cream	Sour and buttermilk	Butter	Cheese	Milk condensed or evaporated
1922	2½ cents per gallon, provided that milk containing more than 7 per cent of butterfat shall be dutiable as cream	20 cents per gallon, provided that cream containing more than 45 per cent of butterfat shall be dutiable as butter	1 cent per gallon, provided that sour milk containing more than 7 per cent of butterfat shall be dutiable as cream	8 cents per pound, Changed by Presidential proclamation of March 6, 1926 to 12 cents per lb.	5 cents per pound but not less than 25 per cent ad valorem	In hermetically sealed containers unsweetened, 1 cent per pound; sweetened 1½ cent per pound; all other 1-3/8 cent per pound
1921	2 cents per gallon	5 cents per gallon	Not specified: cally provided for 3	6 cents per lb: 23 per centum ad valorem		
1913	Free	Free	Not specified: cally provided for 3	2½ cents per pound: 20 per centum ad valorem		Free 2
1909	2 cents per gallon	5 cents per gallon	Not specified: cally provided for 4	6 cents per pound: 6 cents per pound		2 cents per pound 2

United States Tariff Commission - Statement March 20, 1926 with respect to: (Milk, fresh; sour milk and buttermilk; and cream)

- 1/ The Act of 1922 levies the following duties on other dairy products -- whole milk powder, 3 cents per pound; cream powder, 7 cents per pound, and skimmed milk powder, 1-1/2 cents per pound; malted milk and compounds or mixtures of or substitutes for milk or cream, 20 per cent ad valorem.
- 2/ Preserved or condensed, or sterilized by heating or other process.
- 3/ If any imported, sour milk possibly free as milk and buttermilk dutiable as unenumerated manufactured article at 15 per cent under Act of 1913.
- 4/ If any imported, sour milk possibly dutiable as unenumerated, unmanufactured article at 10 per cent, and buttermilk dutiable as unenumerated, manufactured article at 20 per cent.

BALANCE OF TRADE IN DAIRY PRODUCTS (IN TERMS OF MILK)

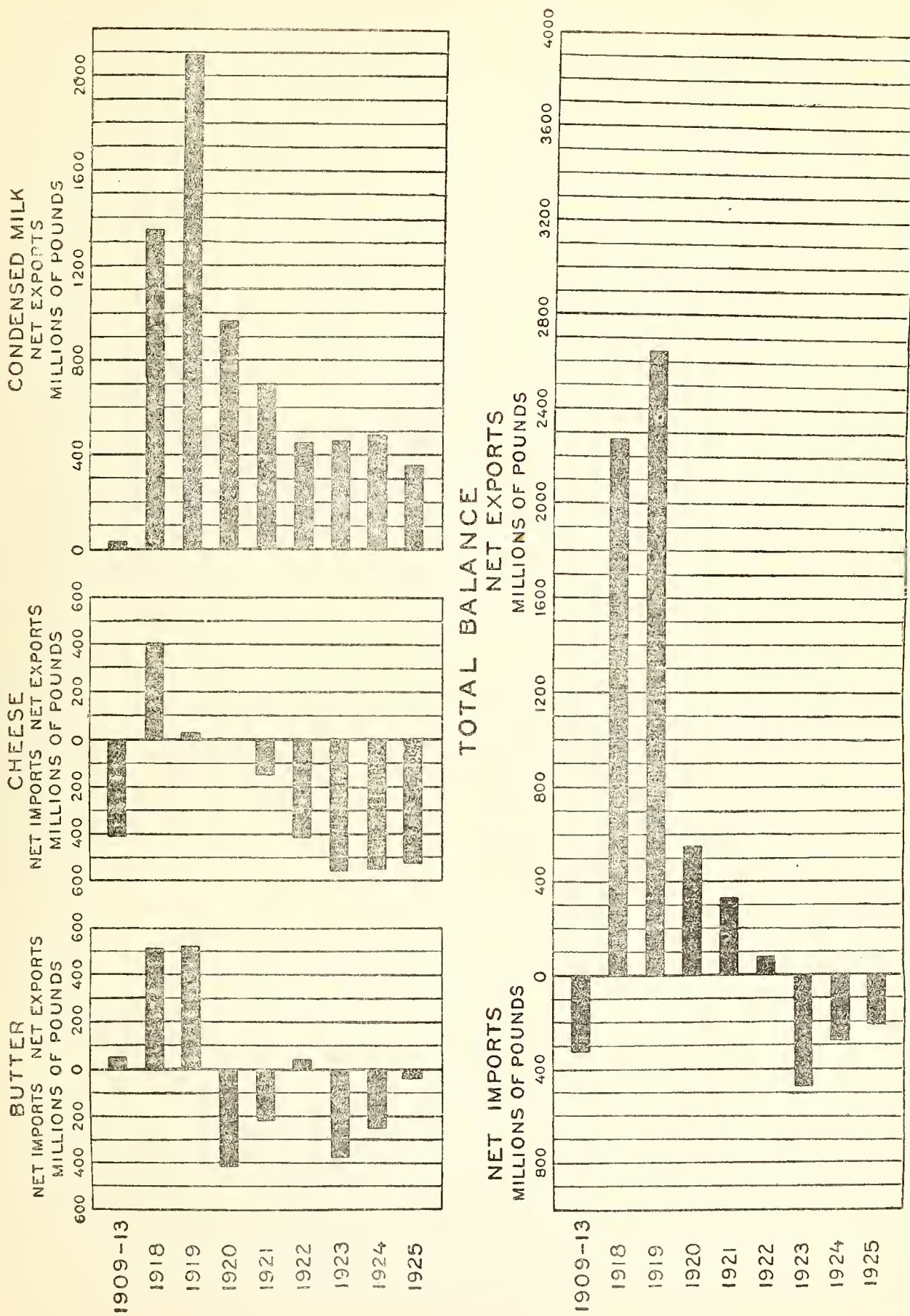


Fig. 33. Imports exceeded exports for the 5-year period 1909-1913, when all dairy products are considered. The World War increased the demand for dairy products and from 1914 to 1922 exports exceeded imports. During the last three years, 1923-25, we have been on an import basis. One pound each of cheese, butter and condensed milk equals 21.10 and 2½ pounds of milk, respectively.

COLD STORAGE HOLDINGS OF CREAMERY BUTTER 1923-1926, AND FIVE YEAR AVERAGE, 1919-'23

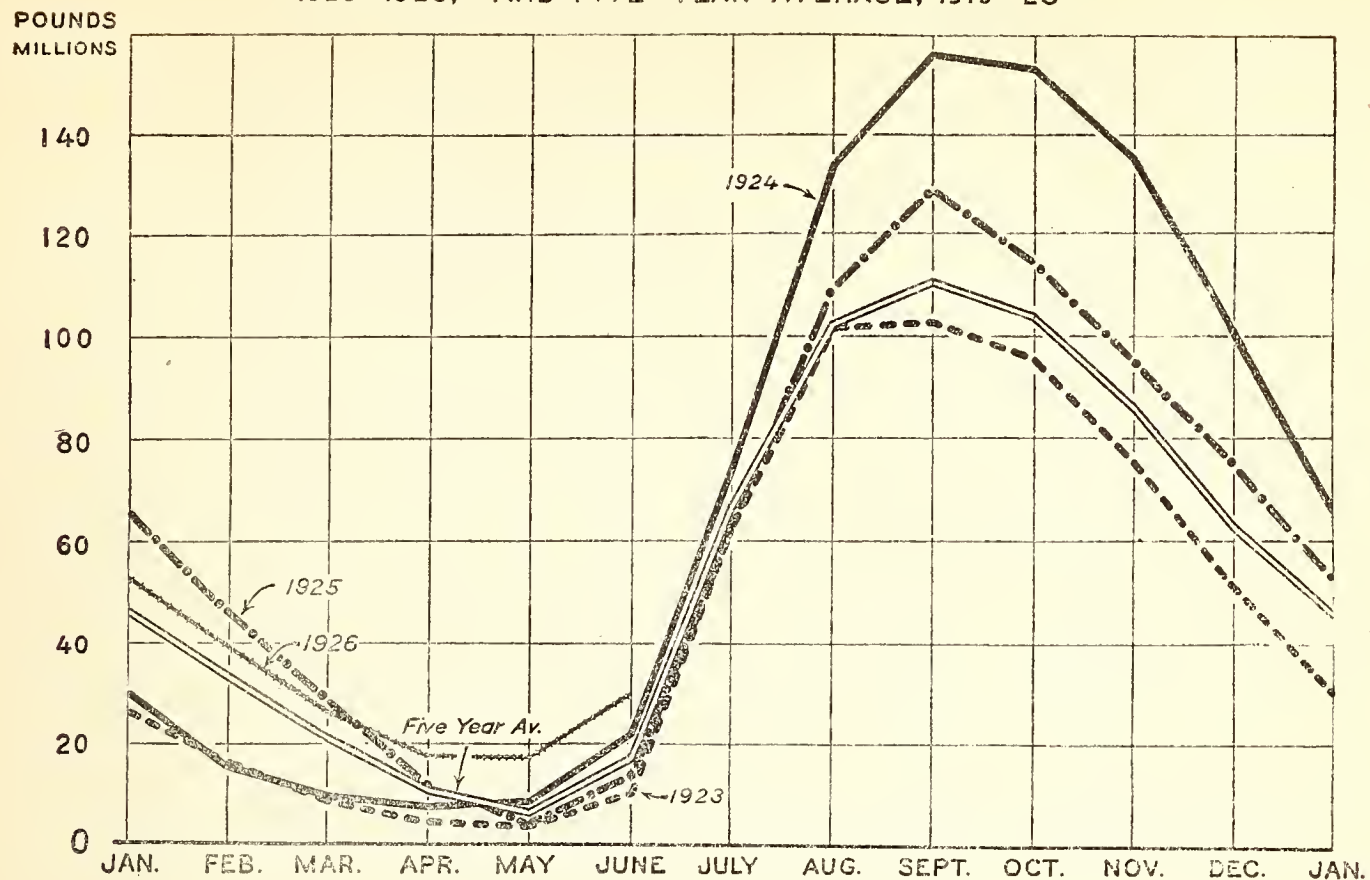


Fig. 34.

COLD STORAGE HOLDINGS OF ALL VARIETIES OF CHEESE 1923-1926, AND FIVE YEAR AVERAGE, 1919-'23

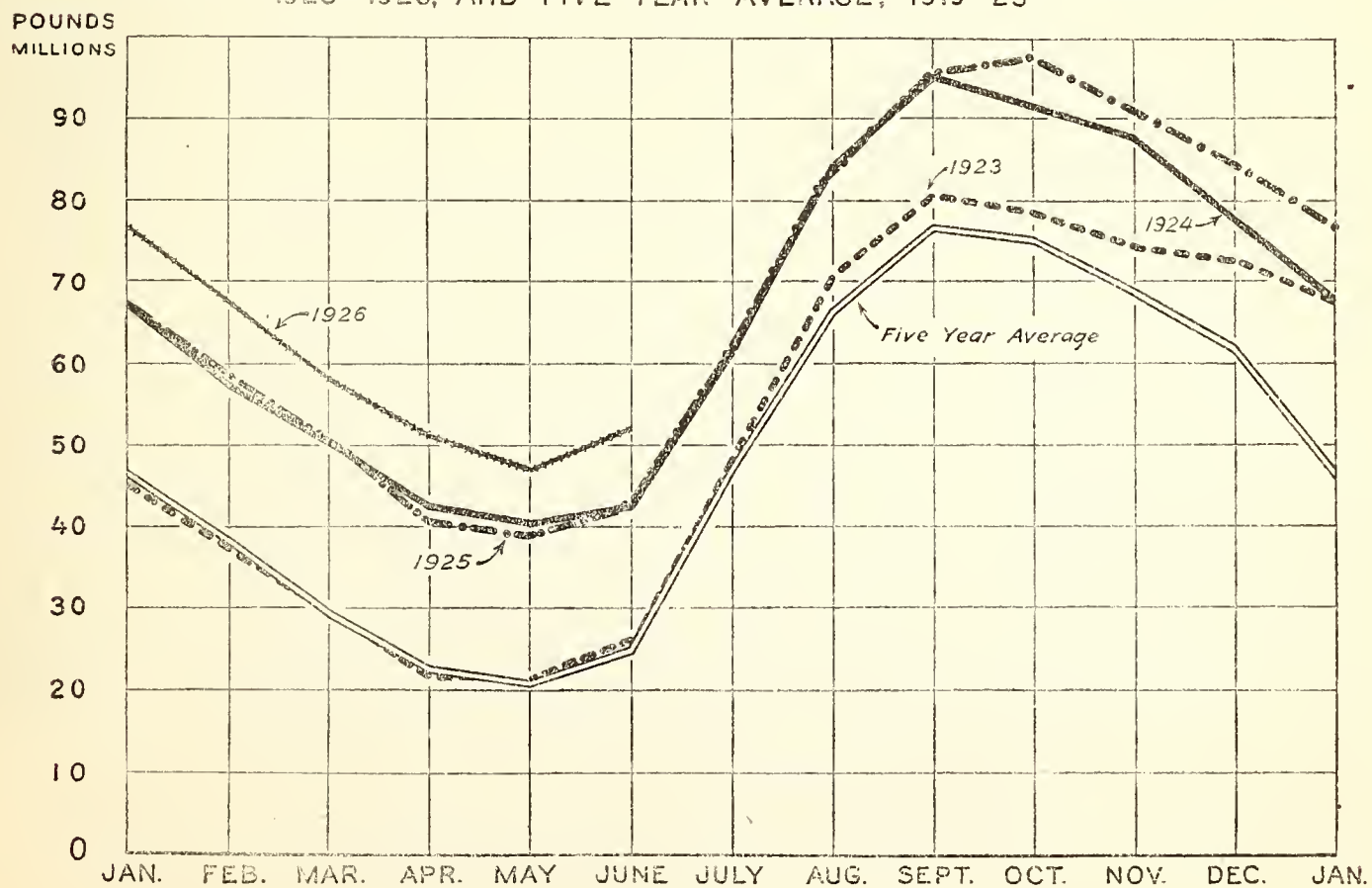


Fig. 35.

Table 27 - Cold-storage holdings of creamery butter, 1916 - 1925

Year beginning January 1:	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	Dec. 1
	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :
1916	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1917	48,977	31,139	15,033	3,346	1,082	7,017	53,863	102,537	105,836	100,522	85,260	79,292
1918	46,134	30,474	16,952	6,805	3,607	9,953	49,982	88,992	108,179	109,154	100,115	79,928
1919	50,726	26,618	18,808	14,629	9,536	12,698	49,140	88,305	99,334	87,883	80,874	65,111
1920	43,910	36,777	24,191	11,909	9,659	29,435	90,158	123,546	131,388	121,816	100,474	73,654
1921	53,737	38,359	22,568	12,555	7,554	12,872	52,526	101,455	115,558	113,385	101,778	79,750
1922	58,682	41,486	27,103	14,732	7,712	21,682	61,991	82,838	92,292	90,116	77,983	65,129
1923	48,412	35,047	22,582	9,113	3,830	13,202	67,410	103,151	112,039	96,680	72,857	47,773
1924	26,819	16,122	8,910	4,824	3,248	10,122	62,768	101,774	102,731	96,117	76,472	51,508
1925	30,299	15,246	9,847	7,842	8,913	22,348	74,184	134,118	156,440	153,494	135,018	100,832
	65,694	45,748	28,789	10,875	3,739	13,036	63,687	109,075	128,403	114,172	94,916	74,754

Table 28 - Cold-storage holdings of American Cheese in the United States.

Year beginning January 1	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	Dec. 1
	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :	: pounds :
1916	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1917	28,558	18,908	13,373	8,443	6,546	7,301	16,357	31,569	46,776	49,579	45,713	37,080
1918	31,855	21,113	15,560	9,842	7,928	11,626	34,159	67,595	91,545	90,671	78,087	75,166
1919	66,784	56,298	37,743	27,965	17,736	20,395	30,054	48,804	55,742	42,065	33,402	25,625
1920	19,823	15,486	9,837	6,750	6,027	12,478	37,501	62,645	76,661	81,359	72,889	62,508
1921	53,168	43,631	34,039	23,431	16,963	13,502	29,654	51,512	60,372	55,007	48,566	39,921
1922	34,115	25,000	17,477	14,294	13,466	17,814	34,948	41,284	46,535	45,163	42,969	34,055
1923	27,591	21,430	15,006	10,745	10,868	15,481	33,130	46,580	53,625	49,473	40,852	37,291
1924	33,617	26,593	20,693	14,465	14,077	17,507	36,834	55,839	63,960	62,384	57,927	55,105
1925	49,566	40,506	35,160	28,294	26,202	27,172	45,239	65,864	76,406	73,153	67,905	58,705
	49,537	41,552	34,647	27,716	26,147	29,550	46,468	66,634	76,512	78,582	71,913	66,495

COLD STORAGE HOLDINGS OF AMERICAN CHEESE 1923-1926, AND FIVE YEAR AVERAGE, 1919-'23

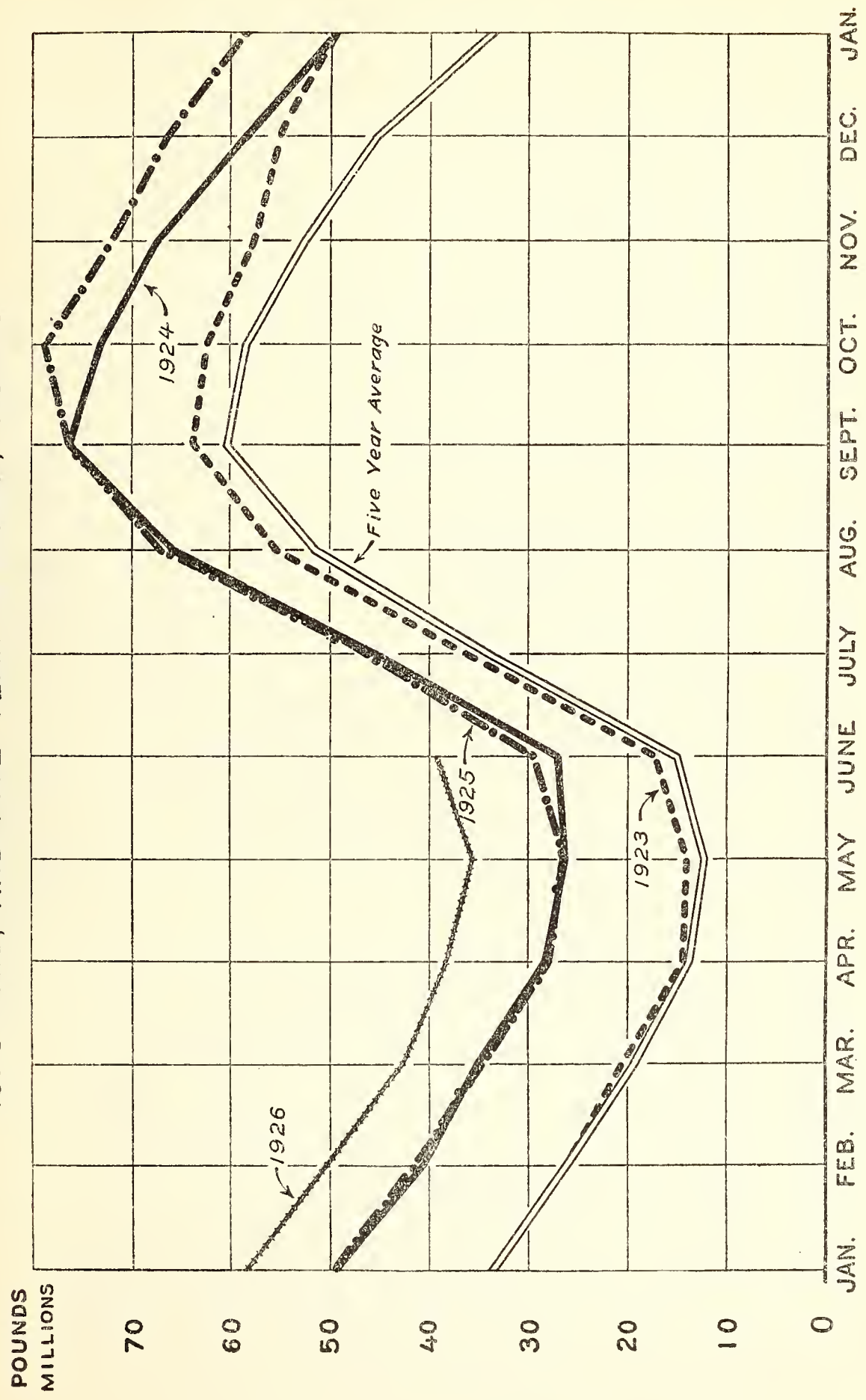


Fig. 34, 35 and 36. Cold storage holdings of butter and cheese usually reach the low point about May 1, then begin to increase and usually reach the high point in September. During April and May cows are put on pasture, the milk flow increases and the production of butter and cheese overtakes and passes consumption. The surplus of the flush season is placed in storage and held until consumption catches up with production.

Table 29. Butter: Gross receipts at five markets by divisions and states of origin, 1922-1925.

BOSTON					
Division and State	1922	1923	1924	1925	
	1,000	1,000	1,000	1,000	
	pounds	pounds	pounds	pounds	
Western States	23	-	220	71	
Montana	23	-	220	39	
Washington	-	-	-	20	
Wyoming	-	-	-	12	
North Atlantic	13,952	12,627	12,453	11,266	
South Atlantic	5	-	-	23	
North Central	65,686	69,332	73,553	70,857	
South Central	491	166	379	258	
Canada	-	137	29	-	
Miscellaneous	-	397	287	-	
Total	80,157	82,659	86,921	82,475	

NEW YORK					
Western States	394	692	765	102	
Arizona	1	-	-	-	
California	364	288	87	102	
Colorado	-	-	107	-	
Idaho	-	-	106	-	
Montana	-	-	465	-	
Utah	-	210	-	-	
Washington	29	194	-	-	
North Atlantic	12,472	7,844	9,820	7,872	
South Atlantic	1,426	1,088	1,186	1,185	
North Central	223,029	227,813	233,593	230,761	
South Central	2,064	2,286	2,104	2,166	
Canada	1,828	3,631	950	1,850	
Miscellaneous	-	412	341	191	
Total	241,213	243,766	248,759	244,127	

PHILADELPHIA					
Western States	359	59	445	54	
California	357	59	224	24	
Montana	-	-	221	30	
Wyoming	2	-	-	-	
North Atlantic	6,095	8,529	4,223	4,222	
South Atlantic	1,994	2,535	1,941	1,700	
North Central	53,562	55,570	66,861	64,777	
South Central	2,258	1,528	2,628	1,137	
Canada	-	252	391	174	
Miscellaneous	-	124	242	-	
Total	64,268	68,597	76,731	72,064	

Table 29 - Butter: Gross receipts at five markets by division and states of origin, 1922-1925 (continued)

CHICAGO

Division and State	1922	1923	1924	1925
	1,000	1,000	1,000	1,000
	pounds	pounds	pounds	pounds
Western States	1,969	2,466	3,344	830
California	192	319	-	-
Colorado	1,317	1,239	1,829	430
Idaho	34	233	202	-
Montana	299	643	1,077	343
New Mexico	7	32	44	9
Utah	120	-	192	-
Washington	-	-	-	4
Wyoming	-	-	-	44
North Atlantic	67	36	256	124
South Atlantic	3	10	8	2
North Central	208,506	219,787	251,083	249,234
South Central	2,420	3,259	3,017	3,623
Canada	47	215	-	470
New Zealand	29	-	-	-
Miscellaneous	60	118	376	25
Total	213,101	225,891	258,084	254,308

SAN FRANCISCO

Western States	25,478	24,999	26,145	27,018
California	23,352	21,805	22,984	21,587
Colorado	120	-	-	545
Idaho	402	502	490	976
Montana	155	361	701	1,896
Nevada	388	293	259	252
Oregon	585	1,177	947	1,195
Utah	136	179	158	98
Washington	332	582	606	469
Wyoming	8	-	-	-
North Central	438	25	-	1,339
South Atlantic	-	-	-	69
Canada	-	316	-	326
Miscellaneous	-	171	266	-
Total	25,916	25,511	26,411	28,752

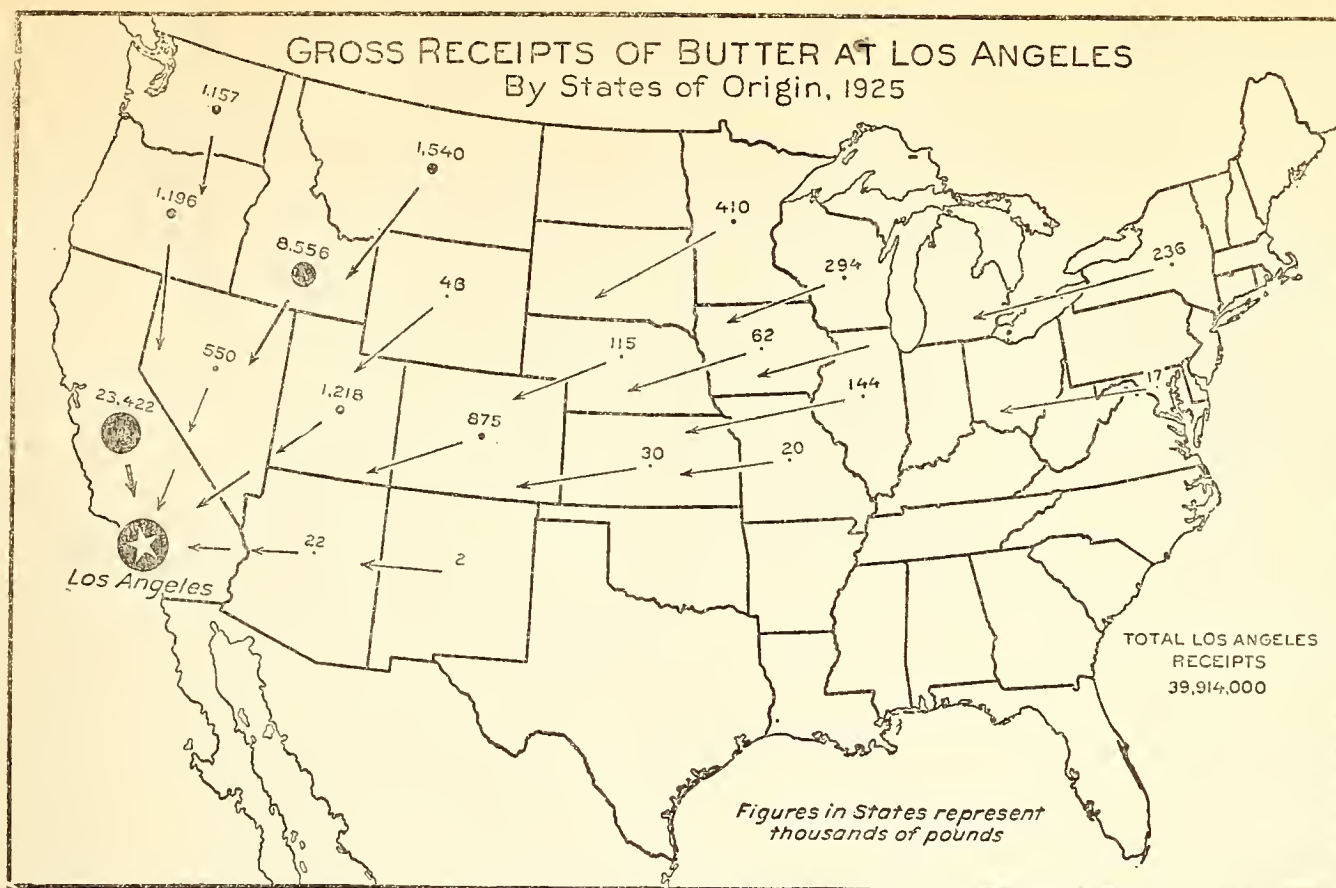


Fig. 42

Fig. 38-42. Figures 38 to 42 show the gross receipts of butter at five markets by states of origin for 1925. Philadelphia received butter from 32 States, Chicago from 28, New York from 27, Los Angeles from 20 and San Francisco from 15. The bulk of the butter received at New York, Philadelphia and Chicago came from the North Central States. That during 1925 butter was shipped (1) from California to Chicago, Philadelphia and New York and (2) from Maryland, Virginia and New York to either Los Angeles or San Francisco, is the important point to be observed. For receipts of butter at four of these markets from 1922 to 1924 see Table 29.

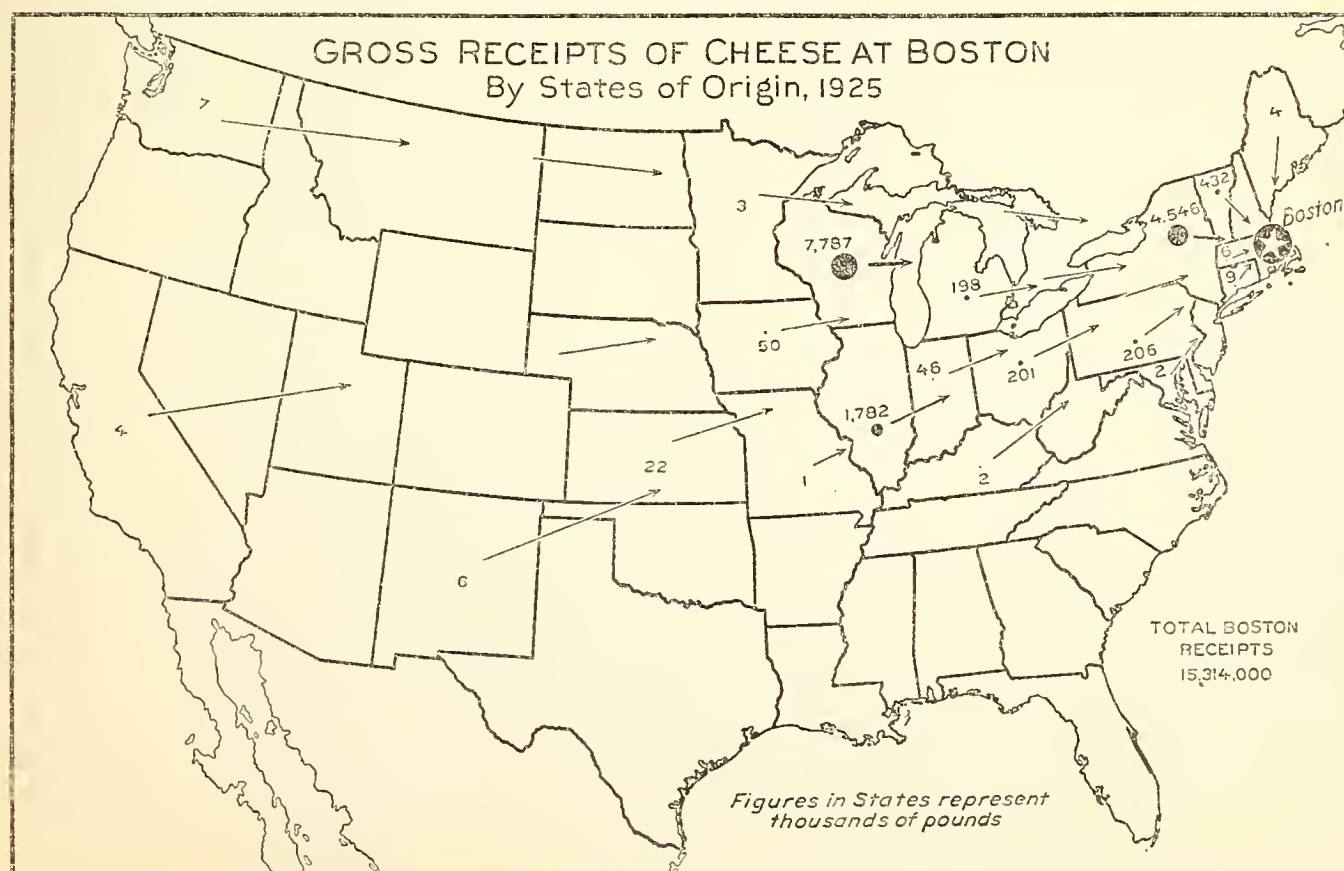


Fig. 43

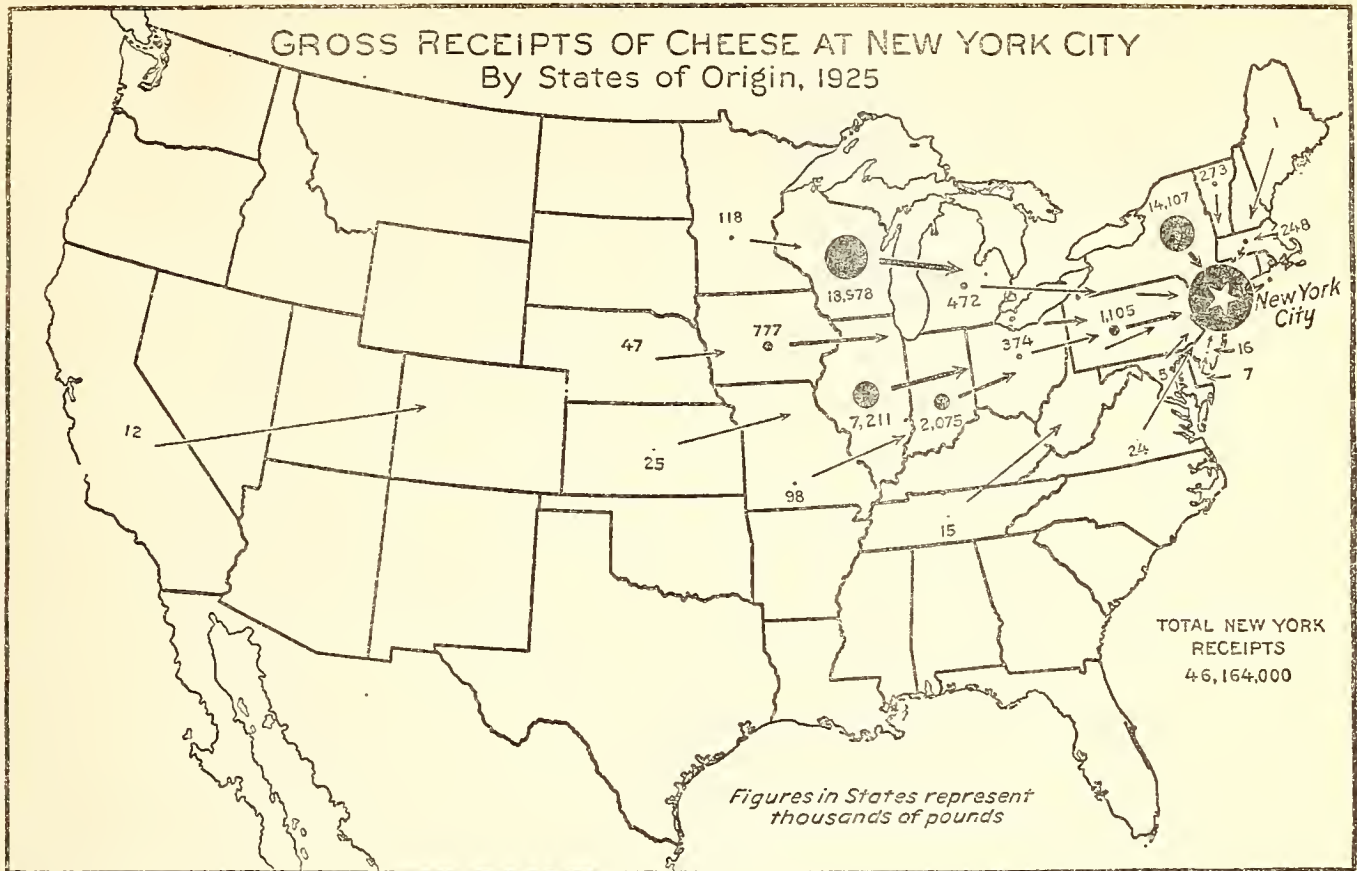


Fig. 44.

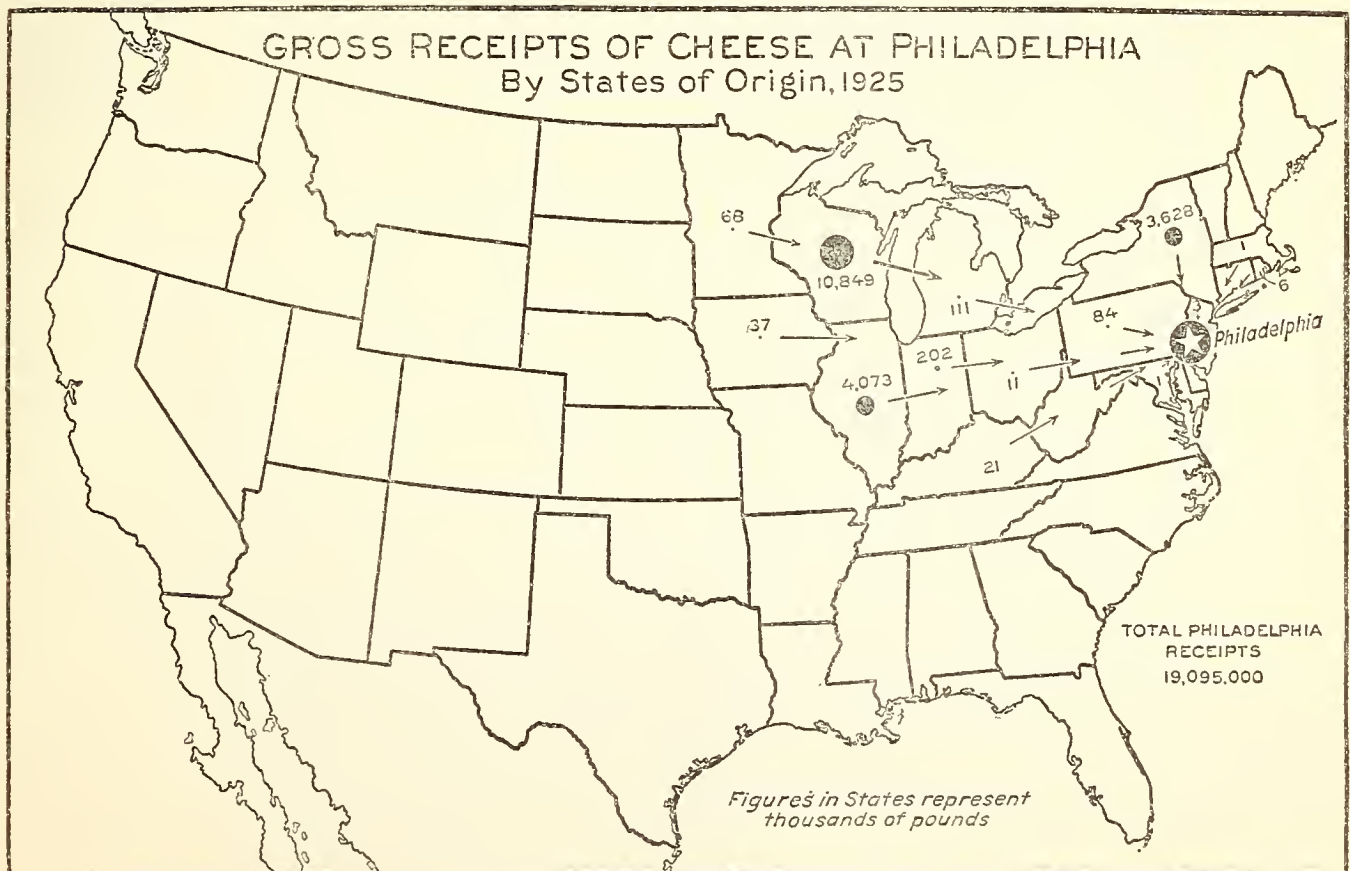


Fig. 45.

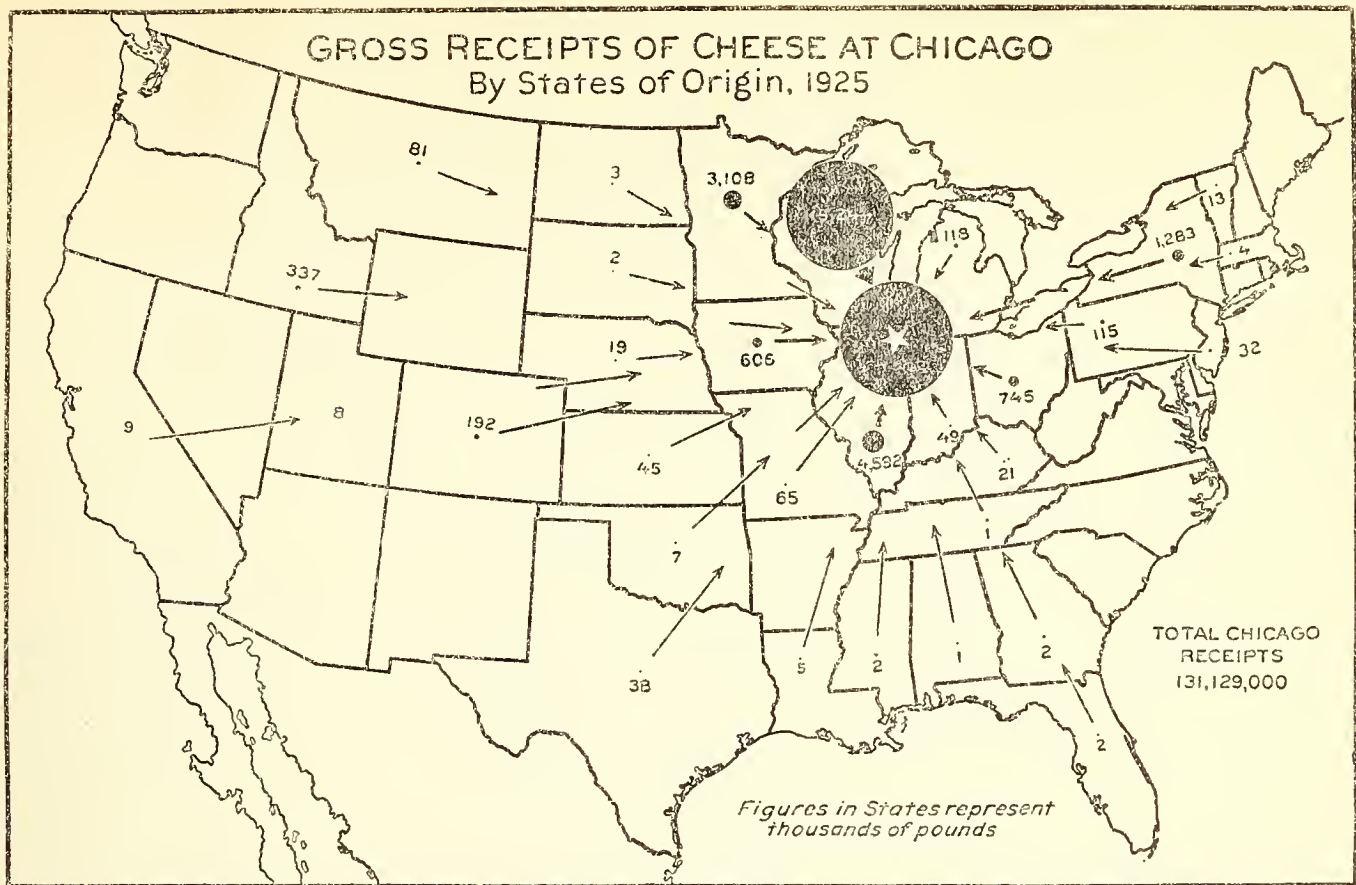


Fig. 46.

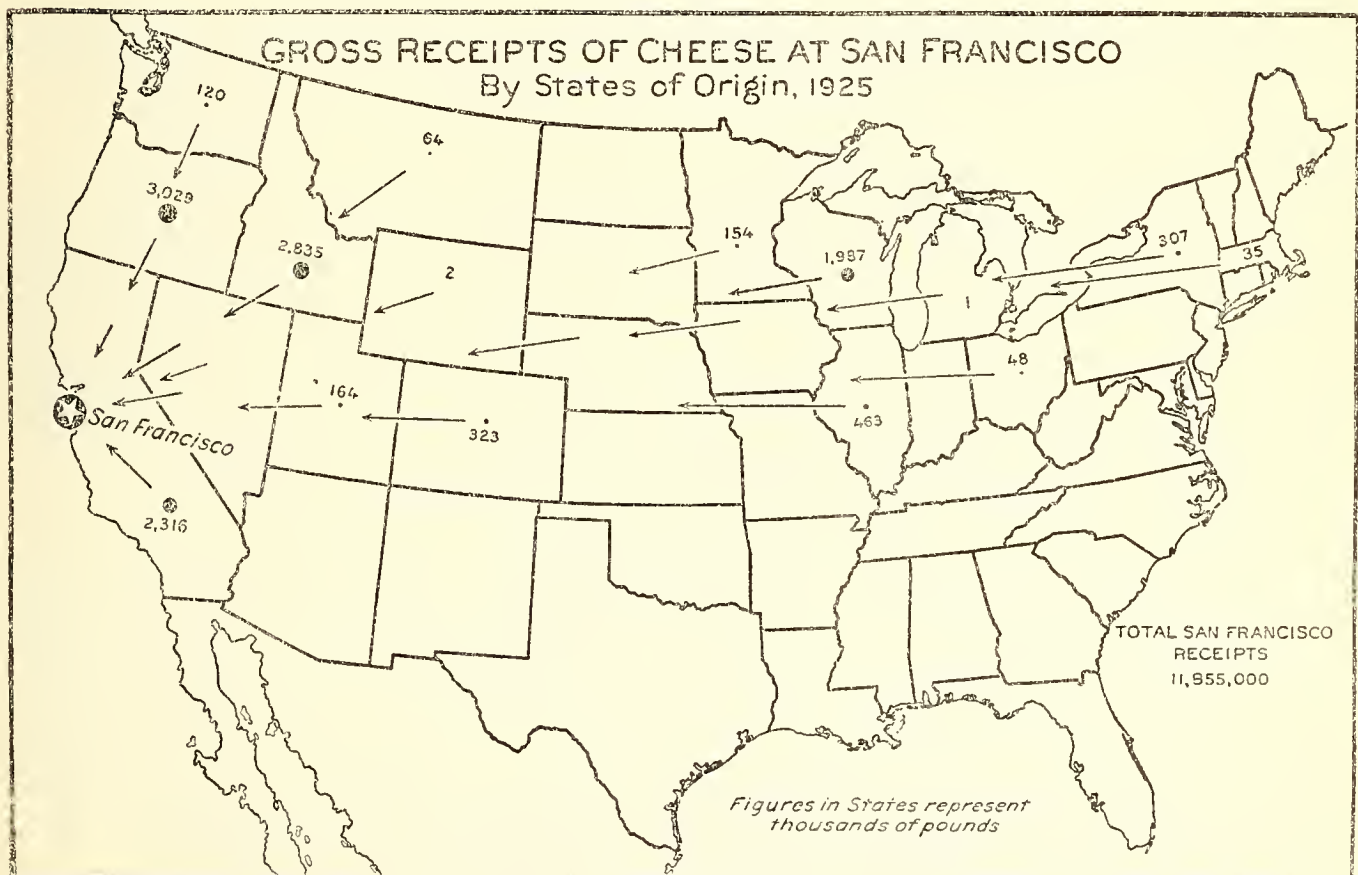


Fig. 47.

Fig. 43-47. Figures 43 to 47 show the gross receipts of cheese at five markets by states of origin for 1925. Chicago is the primary cheese market and Wisconsin produced about 75 per cent of the cheese that reached these five cities. Chicago received cheese from 31 states during 1924, New York from 21, Boston from 20, Philadelphia from 14 and San Francisco from 14. For receipts of cheese at these markets from 1922 to 1924 see Table 30.

Table 30. Cheese: Gross receipts at five markets by divisions and states of origin, 1922-1925.

BOSTON				
Geographic division	1922	1923	1924	1925
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Western States	-	-	-	11
California	-	-	-	4
Washington	-	-	-	7
North Atlantic	7,559	8,324	6,166	5,256
South Atlantic	-	-	-	2
North Central	5,650	7,487	7,465	10,044
South Central	-	-	-	1
Canada	209	-	56	-
Miscellaneous	-	102	37	-
Total	13,418	15,913	13,724	15,314
NEW YORK				
Western States	94	174	-	12
California	-	-	-	12
Colorado	40	-	-	-
Washington	54	174	-	-
North Atlantic	23,284	18,485	15,495	15,753
South Atlantic	26	102	78	36
North Central	25,369	30,135	27,017	30,176
South Central	74	-	-	15
Canada	1,190	428	259	140
Miscellaneous	-	101	109	32
Total	50,037	49,425	42,958	46,164
PHILADELPHIA				
North Atlantic	5,200	4,839	3,973	3,721
South Atlantic	61	-	-	1
North Central	14,054	13,420	12,700	15,352
South Central	1	-	-	21
Canada	8	-	-	-
Miscellaneous	-	125	187	-
Total	19,324	18,384	16,865	19,095

Table 30. Cheese: Gross receipts at five markets by divisions and states of origin, 1922-1925. (continued)

CHICAGO					
Geographic Division	1922	1923	1924	1925	
	1,000	1,000	1,000	1,000	
	pounds	pounds	pounds	pounds	
Western States	214	401	1,019	627	
California	57	-	-	9	
Colorado	104	16	34	192	
Idaho	19	168	675	337	
Montana	26	203	310	81	
Utah	8	14	-	8	
North Atlantic	2,757	2,742	1,920	1,400	
South Atlantic	-	-	-	4	
North Central	104,420	120,164	126,421	128,598	
South Central	28	67	12	73	
Canada	250	246	373	380	
Miscellaneous	-	26	278	47	
Total	107,669	123,646	130,023	131,129	

SAN FRANCISCO					
Western States	6,602	7,918	7,889	8,860	
California	3,416	3,650	2,603	2,316	
Colorado	322	222	256	323	
Idaho	222	1,039	2,262	2,835	
Montana	56	338	-	64	
Nevada	18	-	-	7	
Oregon	2,448	2,557	2,710	3,029	
Utah	10	-	-	164	
Washington	108	112	58	120	
Wyoming	2	-	-	2	
North Atlantic	314	249	310	342	
North Central	2,262	3,483	3,037	2,653	
Miscellaneous	-	51	246	-	
Total	9,178	11,701	11,482	11,855	

RECEIPTS OF CREAMERY BUTTER AT THE FOUR PRINCIPAL MARKETS NEW YORK, CHICAGO, PHILADELPHIA, AND BOSTON

Monthly, 1920-1926

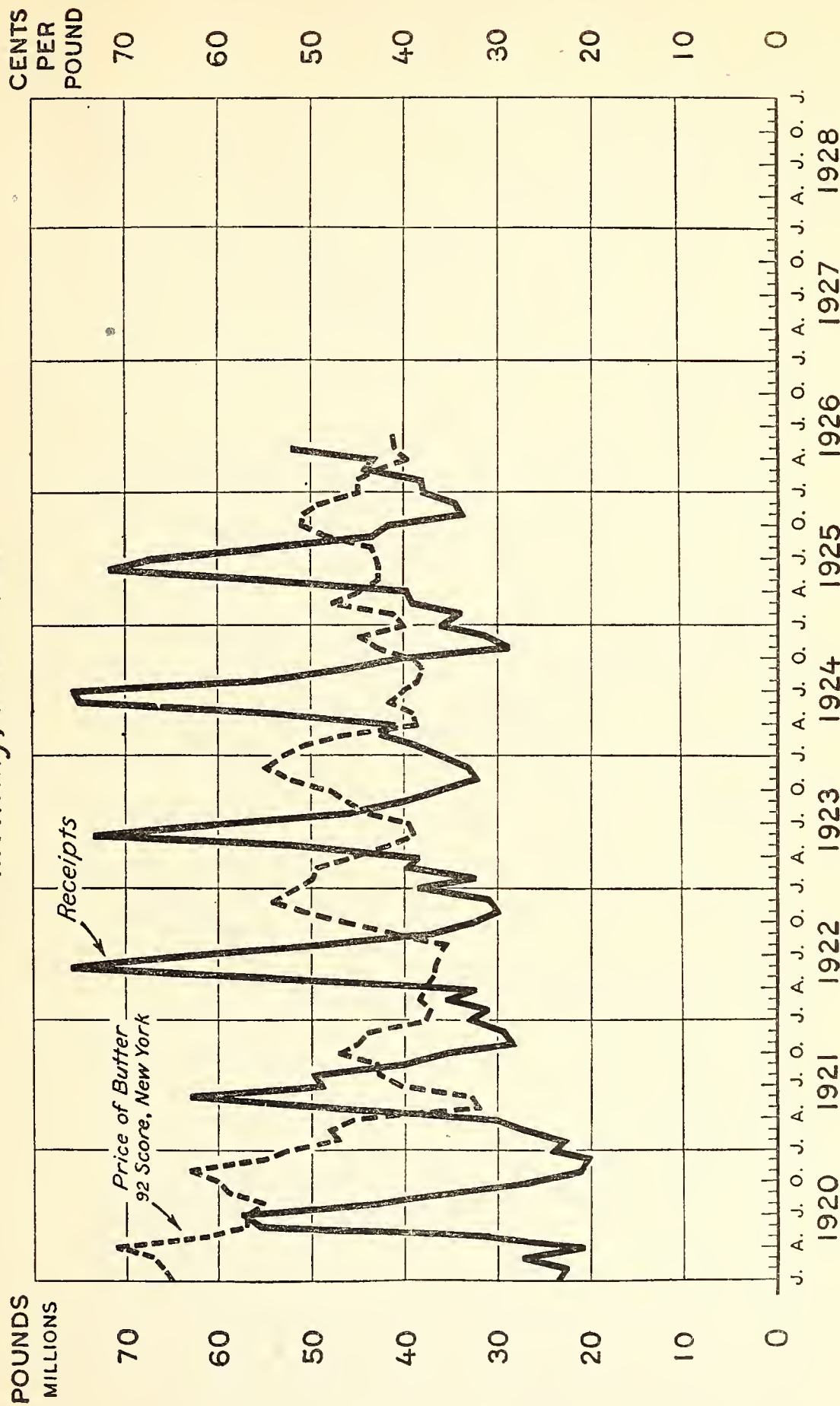


Fig. 48. As a rule, butter is shipped to market very soon after it is made. As a result receipts at the primary wholesale markets are heavy during the flush season of production and light during the slack season. Receipts at the four principal markets are generally heaviest during June and lightest during November or December. The New York price of butter tends to drop as receipts at these markets are increasing and rise as receipts are decreasing.

BUTTER, 92 SCORE CREAMERY
AVERAGE WHOLESALE PRICES PER POUND
AT CHICAGO, NEW YORK, AND SAN FRANCISCO
1921-1925

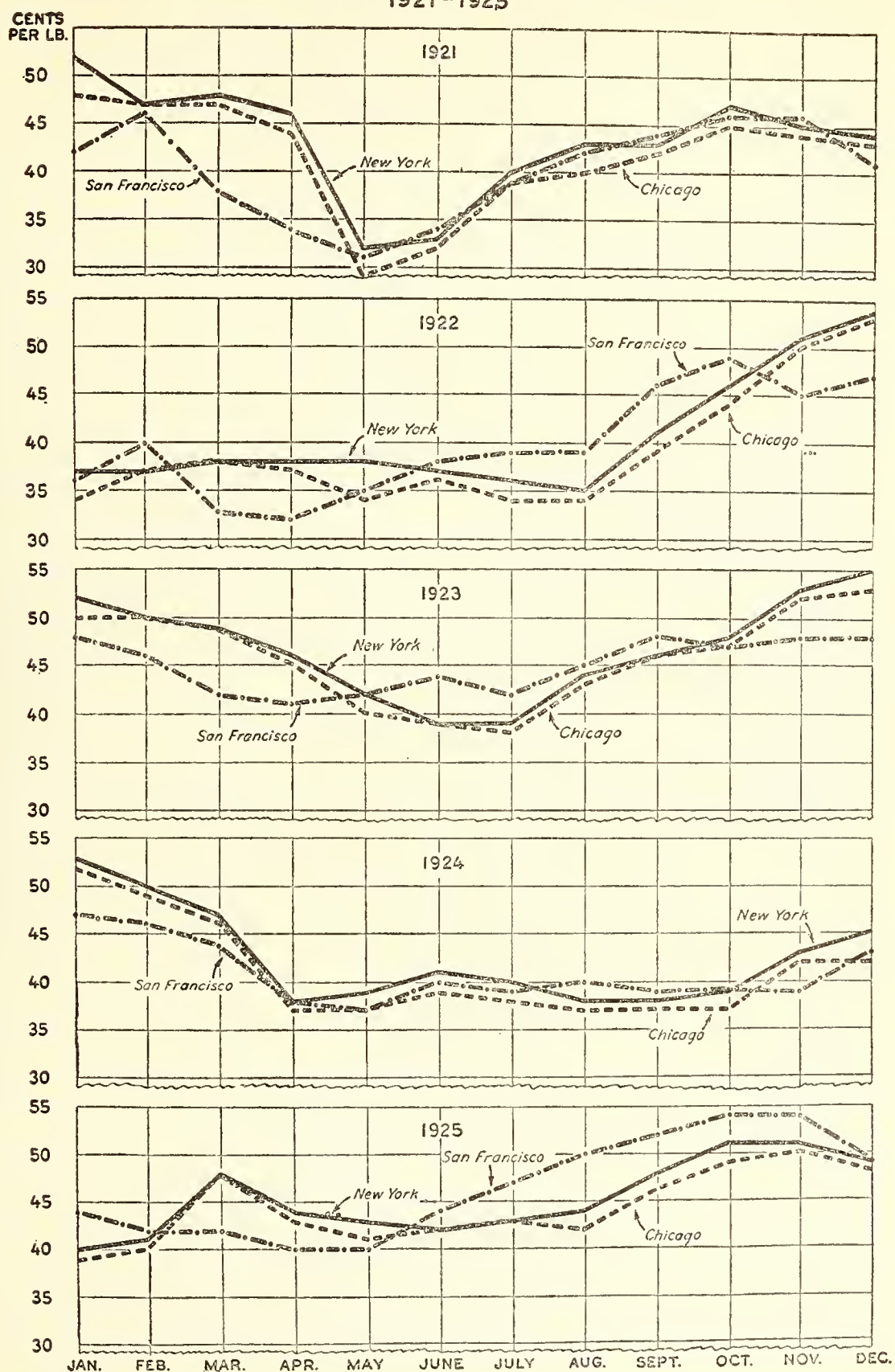


Fig. 49. The San Francisco price is generally enough below the Chicago and New York prices during March or April to permit butter to move eastward. When the flush season of production comes on in the dairy belt, Chicago and New York prices usually drop below the San Francisco price, and when the differential is sufficient butter may move from the East to the Western markets.

MONTHLY AVERAGE PRICES OF BUTTER IN LONDON AND NEW YORK AND TOTAL MONTHLY IMPORTS OF BUTTER INTO UNITED STATES

APRIL 1921 - DEC. 1925

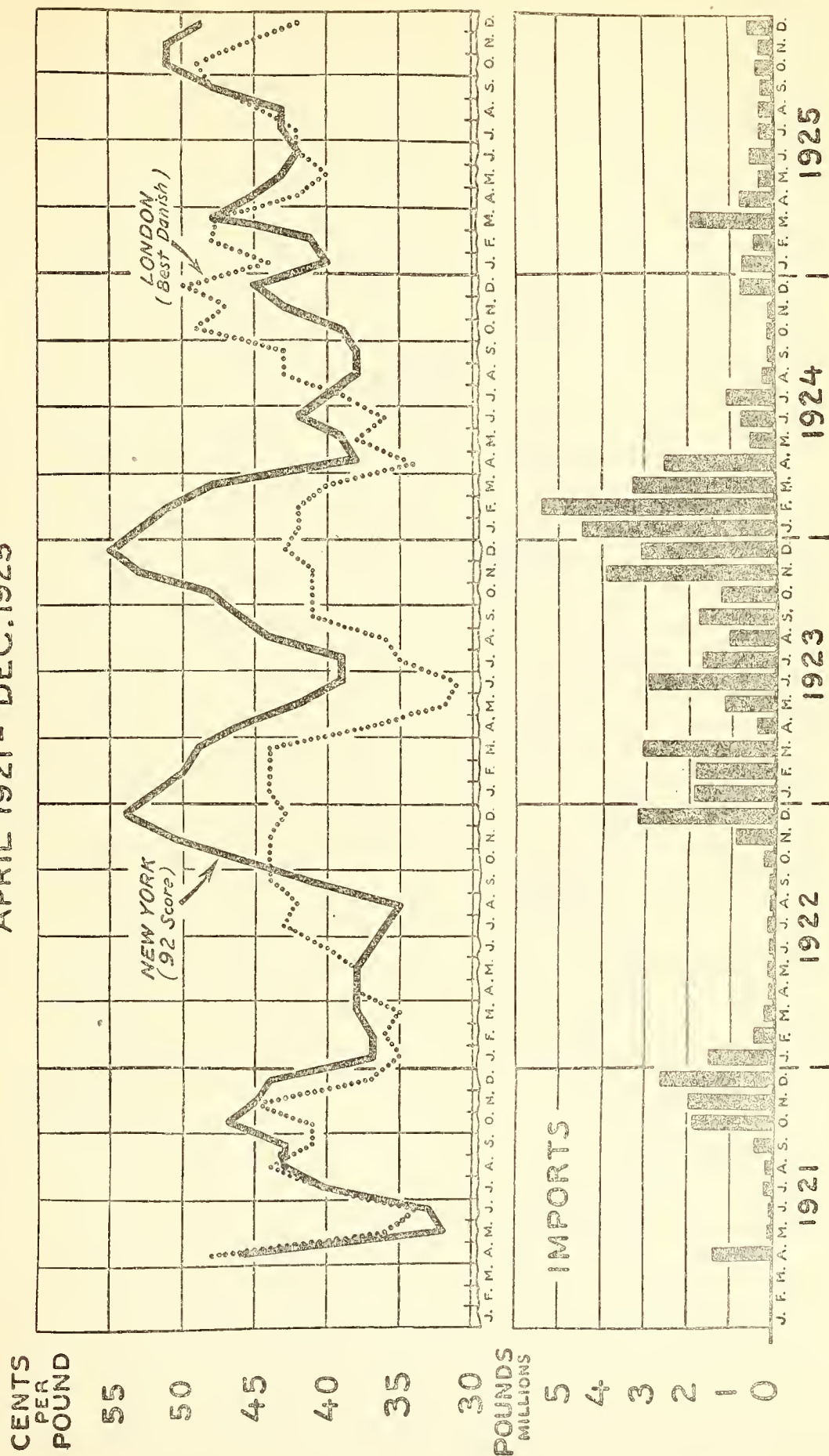


Fig. 50. The importation of butter into the United States responds readily to the spread between the prices of butter in New York and London. As the New York price rises above the London price, imports tend to increase, and vice versa.

PRODUCTION, NET IMPORTS OR EXPORTS, STORAGE HOLDINGS,
CONSUMPTION, AND PRICES
1920-1925

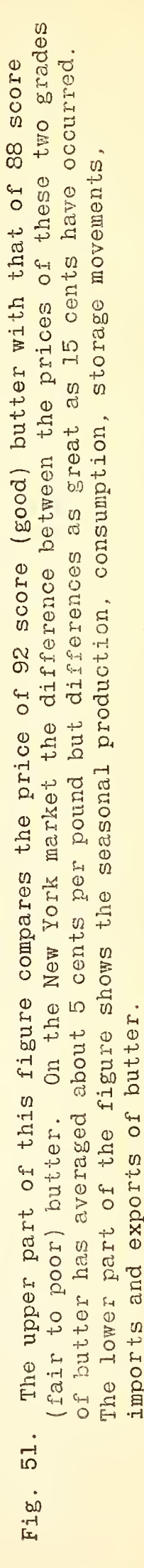


Fig. 51. The upper part of this figure compares the price of 92 score (good) butter with that of 88 score (fair to poor) butter. On the New York market the difference between the prices of these two grades of butter has averaged about 5 cents per pound but differences as great as 15 cents have occurred. The lower part of the figure shows the seasonal production, consumption, storage movements, imports and exports of butter.

Table 31 - Average retail price per quart for bottled milk delivered to consumers in 25 cities by months, 1925

City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Boston, Mass.	14½	14½	13½	13½	13½	13	14	14½	14½	14½	14½	14½
New Haven, Conn.	16	16	16	15	15	15	15	15	16	16	16	16
New York, N. Y.	15	15	15	15	15	14	14	15	15	15	15	15
Philadelphia, Pa.	12	12	12	12	12	12	12	12	12	12	12	12
Baltimore, Md.	13	13	13	13	12	13	13	13	13	13	13	13
Washington, D. C.	14	14	14	14	14	14	14	14	15	15	15	15
Jacksonville, Fla.	18½	18½	18½	19	18½	18	17½	17½	18½	20½	20½	20½
Pittsburgh, Pa.	14	14	14	14	14	14	14	14	14	14½	14½	14½
Cleveland, Ohio	13½	13½	14	14	14	14	13½	14	14	14	14	15
Detroit, Mich.	13½	13	13½	13	13½	13½	13½	15	14	13½	13½	14
Chicago, Ill.	14	14	14	14	14	14	14	14	14	14	14	14
Milwaukee, Wis.	10	10	10	10	10	10	10	10	10	10	10	10½
Minneapolis, Minn.	11	11	11	11	11	11	11	11	12	12	12	12
Indianapolis, Ind.	12	11	10	10	10	10	10	11	12	12	12	12
Kansas City, Mo.	13	13	13	13	13	13	13	13	13	13	13	13
Omaha, Nebr.	12	11	11	11	11	11	11	12	12	12	12	12
Louisville, Ky.	13	13	12	12	12	12	12	12	12	14	14	14
New Orleans, La.	14	14	14	14	12	12	12	12	12	14	14	14
Dallas, Texas	15	15	15	15	15	15	15	15	15	15	15	15
Denver, Colo.	12	12	10	10	10	10	10	12	12	12	12	12
Salt Lake City, Utah	10½	10½	10½	11	11	10½	10½	11	10½	10½	10½	10½
Seattle, Wash.	10	12	12	12	12	12	12	12	13	13	13	13
Portland, Ore.	11	11	11	11	11	11½	11	11½	11½	12	12	12
San Francisco, Calif.	14	14	14	14	14	14	14	14	14	14	14	14
Los Angeles, Calif.	14	14½	15	15	15	15	15	15	15	15	15	15
Average	13.18	13.18	13.04	13.02	12.90	12.86	12.84	13.18	13.32	13.62	13.62	13.70

Table 32 - Average price per hundredweight paid to producers supplying condensers
3.5 per cent milk 1925 2/

Geographic Division 1/	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.
New England	2.21	2.22	2.22	2.06	1.96	1.81	1.82	2.06	2.06	2.15	2.20	2.30
Mid. Atlantic	2.14	2.29	2.21	2.21	2.25	2.05	2.17	2.16	2.18	2.27	2.33	2.37
S. Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
E.N. Central	1.93	1.92	1.94	1.94	1.90	1.84	1.91	1.98	2.01	2.08	2.12	2.14
W.N. Central	1.85	1.83	1.82	1.82	1.77	1.76	1.83	1.88	1.90	1.92	2.03	2.02
S. Central	-	-	-	-	-	-	-	-	-	-	-	-
N. Western	1.79	1.84	1.84	1.79	1.75	1.70	1.84	1.96	2.02	2.10	2.15	2.17
S. Western	1.79	1.78	1.76	1.76	1.67	1.66	1.78	1.88	1.97	2.02	2.09	2.10
United States	1.92	1.93	1.93	1.93	1.88	1.82	1.91	1.98	2.01	2.09	2.15	2.15

- 1/ New England - Maine, N. H., Vt., Mass., R. I., Conn.
 Middle Atlantic - N. Y., N. J., Pa.
 South Atlantic - Del., Md., D. C., Va., W. Va., N. C., S. C., Ga., Fla.
 East North Central - Ohio, Ind., Ill., Mich., Wis.
 West North Central - Minn., Iowa, Mo., N. D., S. D., Nebr., Kans.
 South Central - Ky., Tenn., Ala., Miss., La., Texas, Okla., Ark.
 Northwestern - Mont., Wyo., Idaho, Wash., Ore.
 Southwestern - Colo., N. M., Ariz., Nev., Utah, Calif.

2/ All figures f.o.b. factory.

Table 33 - Average price per hundredweight paid to producers supplying city milk
trade 3.5 per cent milk, 1925 2/

Geographic Division 1/	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.	Dols.
New England	3.45	3.47	3.24	3.02	3.06	2.96	3.26	3.39	3.44	3.48	3.58	3.44
Mid. Atlantic	2.80	2.82	2.84	2.75	2.66	2.51	2.49	2.71	2.69	2.67	2.67	2.75
E.N. Central	2.48	2.54	2.49	2.45	2.47	2.45	2.40	2.44	2.44	2.53	2.48	2.58
W.N. Central	2.20	2.19	2.19	2.14	2.13	2.11	2.09	2.19	2.17	2.26	2.32	2.34
S. Atlantic	3.36	3.25	3.25	3.42	3.35	3.23	3.32	3.41	3.41	3.71	3.95	3.97
E.S. Central	2.63	2.78	2.59	2.55	2.27	2.21	2.24	2.37	2.24	2.64	2.73	2.60
W.S. Central	2.48	2.83	2.54	2.52	2.40	2.26	2.35	2.49	2.63	2.81	2.63	2.71
Mountain	2.42	2.46	2.34	2.34	2.29	2.31	2.53	2.38	2.48	2.57	2.48	2.40
Pacific	2.59	2.73	2.73	2.74	2.71	2.47	2.48	2.69	2.61	2.79	2.68	2.91
United States	2.68	2.73	2.65	2.62	2.58	2.50	2.55	2.65	2.65	2.79	2.78	2.80

Table 34 - Monthly average wholesale prices on 92 score butter, 1925
(Cents per pound)

Month	New York	Chicago	Philadelphia	Boston	San Francisco
	Cents	Cents	Cents	Cents	Cents
Jan.	39.94	38.86	40.99	40.69	43.69
Feb.	40.82	40.09	41.74	41.11	42.21
Mar.	47.51	47.66	43.33	47.42	42.52
Apr.	44.54	42.96	40.46	45.30	39.95
May	42.58	40.73	43.58	42.98	39.94
June	42.48	42.19	43.31	43.26	44.10
July	42.86	42.20	43.83	43.54	47.33
Aug.	43.45	41.64	44.23	43.98	49.97
Sept.	48.18	46.35	43.96	47.88	51.74
Oct.	50.88	49.23	52.15	50.60	53.97
Nov.	50.67	49.51	51.81	50.23	54.34
Dec.	49.20	47.45	50.02	49.16	48.73
Average	45.26	44.07	45.79	45.51	46.54

Table 35 - Monthly average wholesale prices fresh No. 1 American Cheese - 1925
(Single Daisies - cents per pound)

Month	New York	Chicago	Philadelphia	Boston	Plymouth, Wis. ^{1/}
	Cents	Cents	Cents	Cents	Cents
Jan.	25.16	24.17	24.64	24.62	24.25
Feb.	^{2/} 24.06	23.02	24.55	24.52	23.05
Mar.	24.36	22.59	24.62	24.82	22.76
Apr.	24.29	22.37	24.81	24.33	22.53
May	23.70	21.99	23.75	23.45	21.90
June	23.82	22.50	23.92	24.25	22.47
July	23.81	22.01	23.65	24.46	21.82
Aug.	24.44	23.24	24.69	24.75	23.01
Sept.	24.42	23.16	24.41	24.82	22.98
Oct.	25.38	23.79	25.22	25.82	23.84
Nov.	^{2/} 26.53	23.29	25.13	25.50	23.32
Dec.	25.26	23.69	25.22	^{3/} 25.79	23.87
Average	24.60	22.98	24.55	24.76	22.98

^{1/} Fond du Lac, Wisconsin prior to October 1, 1925.

^{2/} Flats.

^{3/} Twins.

Table 36 - Freight rates per 100 pounds and refrigeration charges per car on butter and cheese, May 1926

From	To	Butter			Cheese		
		Carlots		L.C.L. 1/	Carlots		L.C.L. 1/
		Freight rate	Refrig-eration charge	Freight rate	Freight rate	Refrig-eration charge	Freight rate
		Cents	Dollars	Cents	Cents	Dollars	Cents
San Francisco	New York	2/ 230	90	2/ 480	-	-	-
San Francisco	" "	300	90	480	300	90	480
Portland	" "	300	90	480	300	90	480
Seattle	" "	300	90	480	300	90	480
Boise	" "	300	80	486 1/2	300	80	486 1/2
Salt Lake City	" "	300	3/	459 1/2	300	3/	459 1/2
Bozeman	" "	300	3/	452	300	3/	452
Denver	" "	261 1/2	3/	345	261 1/2	3/	345
Cedar Rapids	" "	142	3/	188 1/2	142	3/	188 1/2
St. Paul	" "	155 1/2	3/	200 1/2	155 1/2	3/	200 1/2
Plymouth	" "	137 1/2	3/	169 1/2	122	3/	158 1/2
San Francisco	Chicago	2/ 230	75	2/ 443	-	-	-
San Francisco	"	300	75	443	300	75	443
Portland	"	300	75	443	300	75	443
Seattle	"	300	75	443	300	75	443
Boise	"	295 1/2	65	362	295 1/2	65	362
Salt Lake City	"	225	3/	335	225	3/	335
Bozeman	"	250	3/	339	250	3/	339
Denver	"	167	3/	220 1/2	167	3/	220 1/2
Cedar Rapids	"	47 1/2	3/	64	47 1/2	3/	64
St. Paul	"	61	3/	76	61	3/	76
Plymouth	"	43	3/	52	27 1/2	3/	34
New York	San Francisco	300	3/	480	300	3/	480
Chicago	" "	300	3/	443	300	3/	443
Plymouth	" "	300	3/	443	300	3/	443
St. Paul	" "	300	3/	428	300	3/	428
Cedar Rapids	" "	300	3/	428	300	3/	428
Denver	" "	264 1/2	3/	317	230	3/	317
Bozeman	" "	211 1/2	3/	272	211 1/2	3/	272
Boise	" "	164	55	284	164	55	284
Salt Lake City	" "	137 1/2	3/	184 1/2	137 1/2	3/	184 1/2
Portland	" "	58	3/	58	58	3/	58

1/ No refrigeration rates given for less than carlots.

2/ Rate on imported goods.

3/ No specific through refrigeration rate given.

Table 37 - Ocean freight rates on butter, cheese and condensed milk, May 1926

From	To	Butter		Cheese		Condensed Milk	
		Dollars	Unit	Dollars	Unit	Dollars	Unit
San Francisco	England	2/ 1.50	100 lbs.	.70	100 lbs.	.70	100 lbs.
"	Hawaiian Islands	2/ 3.25	100 "	3.25	100 "	5.75	3/2,000 "
"	Hana, Hawaiian Islands	2/ 3.50	100 "	-	-	6.25	3/2,000 "
"	Japan	2/ 30.00	3/2,000 "	14.00	3/2,000 "	9.00	3/2,000 "
"	Japan	4/ 14.00	3/2,000 "	-	-	-	-
"	China	2/ 30.00	3/2,000 "	5/14.00	3/2,000 "	9.00	3/2,000 "
"	China	4/ 14.00	3/2,000 "	-	-	-	-
"	New York (carlot)	1.30	100 "	1.40	100 "	.45	100 "
"	New York (less than carlot)	1.30	100 "	2.10	100 "	.70	100 "
New Zealand	England	1.95	100 "	2.00	100 "	-	-
"	Hawaiian Islands	1.95	100 "	2.00	100 "	-	-
"	New York	1.95	100 "	2.00	100 "	20.26	2,000 lbs.
"	San Francisco	1.95	100 "	2.00	100 "	20.26	2,000 "

Compiled from data furnished by the United States Shipping Board.

1/ San Francisco rates apply also to Portland and Seattle.

2/ Rate for refrigeration cargo.

3/ 2,000 pounds or 40 cu.ft. whichever may yield the vessel the greater revenue.

4/ Ordinary storage.

5/ The rates to China varies from \$14.00 to \$14.50 per ton for cheese and from \$9.00 to \$9.50 per ton for condensed milk, according to the port of discharge.

Note: - Rates quoted in British money have been converted on the basis of 24.33 cents to the shilling and 2 cents to the pence.

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